



1
00:00:17,440 --> 00:00:21,990
270 meters and closing

2
00:00:27,029 --> 00:00:24,310
crew dragon expected to

3
00:00:28,630 --> 00:00:27,039
converge with waypoint one directly in

4
00:00:34,470 --> 00:00:28,640
front of the international space station

5
00:00:40,229 --> 00:00:37,190
you can see the views uh

6
00:00:42,630 --> 00:00:40,239
right over the shoulders of commander

7
00:00:44,709 --> 00:00:42,640
shane kimbrough and pilot megan mcarthur

8
00:00:54,229 --> 00:00:44,719
kimbrough on the left macarthur on the

9
00:00:57,270 --> 00:00:55,590
from this view

10
00:00:59,590 --> 00:00:57,280
from the international space station you

11
00:01:03,189 --> 00:00:59,600
can see what we were mentioning earlier

12
00:01:05,509 --> 00:01:03,199
where dragon was below the station

13
00:01:08,469 --> 00:01:05,519

you could see that previously when it

14

00:01:11,109 --> 00:01:08,479

had earth in the background now it is

15

00:01:14,390 --> 00:01:11,119

almost adjacent or almost in the same

16

00:01:17,190 --> 00:01:14,400

orbit as the international space station

17

00:01:18,789 --> 00:01:17,200

as it's making its way to the docking

18

00:02:03,670 --> 00:01:18,799

axis

19

00:02:06,870 --> 00:02:06,069

and this maneuver from below the station

20

00:02:09,749 --> 00:02:06,880

to

21

00:02:18,390 --> 00:02:09,759

in front of the docking port is

22

00:02:22,470 --> 00:02:20,630

getting great views from all around

23

00:02:24,790 --> 00:02:22,480

from the station side from the dragon

24

00:02:29,030 --> 00:02:26,390

the outline of the station you see on

25

00:02:29,830 --> 00:02:29,040

the displays inside crew dragon is in

26

00:02:31,910 --> 00:02:29,840

line

27

00:02:33,910 --> 00:02:31,920

uh with the position of where dragon is

28

00:02:36,390 --> 00:02:33,920

relative

29

00:02:38,150 --> 00:02:36,400

to the international space station it's

30

00:02:39,509 --> 00:02:38,160

almost at the docking access about two

31

00:02:43,509 --> 00:02:39,519

and a half minutes to go until it

32

00:02:48,550 --> 00:02:46,070

and as a reminder dragon is flying

33

00:02:51,030 --> 00:02:48,560

autonomously so

34

00:02:53,270 --> 00:02:51,040

they aren't using those display panels

35

00:02:54,390 --> 00:02:53,280

to fly dragon they're just using them to

36

00:03:02,229 --> 00:02:54,400

monitor

37

00:03:11,750 --> 00:03:04,550

so the crew is basically just patiently

38

00:03:15,750 --> 00:03:14,070

passing dragon in a

39

00:03:16,790 --> 00:03:15,760

better view a lot more clear now that

40

00:03:20,470 --> 00:03:16,800

it's

41

00:03:22,390 --> 00:03:20,480

only 240 meters away

42

00:03:23,589 --> 00:03:22,400

you can see the nose cone clearly uh

43

00:03:25,670 --> 00:03:23,599

deployed

44

00:03:28,229 --> 00:03:25,680

extended uh

45

00:03:30,869 --> 00:03:28,239

towards the space-facing side or zenith

46

00:03:35,830 --> 00:03:33,110

a really good zoomed in

47

00:03:38,949 --> 00:03:35,840

of view and you could almost make out

48

00:03:40,149 --> 00:03:38,959

those four bulkhead thrusters

49

00:03:41,030 --> 00:03:40,159

uh

50

00:03:58,830 --> 00:03:41,040

on

51
00:04:01,509 --> 00:03:58,840
begin

52
00:04:03,030 --> 00:04:01,519
shortly dragon will continue to a

53
00:04:04,710 --> 00:04:03,040
waypoint 2

54
00:04:07,589 --> 00:04:04,720
with the additional lighting assessment

55
00:04:08,949 --> 00:04:07,599
occurring at 110 meters as previously

56
00:04:10,390 --> 00:04:08,959
noted

57
00:04:12,630 --> 00:04:10,400
for awareness

58
00:04:15,030 --> 00:04:12,640
if sunlight results in the loss of the

59
00:04:17,189 --> 00:04:15,040
dragonite geofilters dragon will

60
00:04:19,590 --> 00:04:17,199
autonomously retreat back to waypoint

61
00:04:21,270 --> 00:04:19,600
one remaining on closed loop control

62
00:04:48,710 --> 00:04:21,280
using the time of flight filters i'll

63
00:04:53,030 --> 00:04:51,350

we are in a handover period so

64

00:04:55,430 --> 00:04:53,040

we may have missed a call as we were

65

00:04:57,830 --> 00:04:55,440

switching from tdrs satellites we're

66

00:05:00,070 --> 00:04:57,840

looking at about 20 seconds to go until

67

00:05:01,990 --> 00:05:00,080

we converge with waypoint one there's

68

00:05:03,510 --> 00:05:02,000

going to be an approach burn maneuver

69

00:05:04,870 --> 00:05:03,520

using the draco thrusters it's called

70

00:05:08,230 --> 00:05:04,880

approach one

71

00:05:08,950 --> 00:05:08,240

and that'll move dragon uh

72

00:05:10,550 --> 00:05:08,960

from

73

00:05:13,110 --> 00:05:10,560

the and right in front of the docking

74

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

axis 220 meters away and start moving in

75

00:05:16,710 --> 00:05:14,479

closing in

76
00:05:18,870 --> 00:05:16,720
uh to waypoint two just 20 meters away

77
00:05:25,909 --> 00:05:18,880
from the docking axis of course they'll

78
00:05:30,469 --> 00:05:28,150
we did hear the core mention that they

79
00:05:31,830 --> 00:05:30,479
are going to have a checkpoint to make

80
00:05:34,870 --> 00:05:31,840
sure that there

81
00:05:37,270 --> 00:05:34,880
isn't too much sunlight uh

82
00:05:38,550 --> 00:05:37,280
on the space station uh which will

83
00:05:40,710 --> 00:05:38,560
prevent

84
00:05:43,430 --> 00:05:40,720
dragon from docking if that does happen

85
00:05:44,710 --> 00:05:43,440
dragon will autonomously back

86
00:05:48,310 --> 00:05:44,720
out

87
00:05:50,790 --> 00:05:48,320
and wait until the sunlight has cleared

88
00:05:53,749 --> 00:05:50,800

to ensure a good

89

00:05:55,990 --> 00:05:53,759

docking with the space station

90

00:06:00,469 --> 00:05:56,000

because this is all autonomous

91

00:06:06,469 --> 00:06:04,309

some visual cameras to to align with the

92

00:06:09,749 --> 00:06:06,479

docking port so it's really important

93

00:06:17,670 --> 00:06:09,759

that we don't have that sunlight

94

00:06:25,990 --> 00:06:19,510

spacex has you loud and clear on the big

95

00:06:30,150 --> 00:06:28,309

very loud and clear your last

96

00:06:31,270 --> 00:06:30,160

we copied most of it but you cut out

97

00:06:34,230 --> 00:06:31,280

towards the end they're not sure if

98

00:06:36,710 --> 00:06:34,240

there's anything important for us

99

00:06:39,590 --> 00:06:36,720

kathy i'm going to repeat the end of the

100

00:06:41,749 --> 00:06:39,600

call we did have a tdrs handover

101
00:06:43,749 --> 00:06:41,759
just for awareness

102
00:06:46,469 --> 00:06:43,759
following the lighting assessment if we

103
00:06:48,790 --> 00:06:46,479
continue but sunlight results in a loss

104
00:06:51,189 --> 00:06:48,800
of the dragonite geofilters

105
00:06:53,670 --> 00:06:51,199
dragonite will autonomously retreat back

106
00:06:55,589 --> 00:06:53,680
to waypoint one still on closed loop

107
00:07:02,629 --> 00:06:55,599
control using the time of flight filters

108
00:07:08,790 --> 00:07:04,150
okay wake up at all thank you very much

109
00:07:13,110 --> 00:07:10,469
no problems no problem shane and for

110
00:07:27,909 --> 00:07:13,120
awareness the c2v2 link reconfiguration

111
00:07:32,390 --> 00:07:30,550
there the core just reiterated

112
00:07:34,550 --> 00:07:32,400
that they will be

113
00:07:36,629 --> 00:07:34,560

checking to make sure that the sunlight

114

00:07:39,350 --> 00:07:36,639

is not in the way of the visual systems

115

00:07:40,710 --> 00:07:39,360

between dragon and the space station if

116

00:07:42,790 --> 00:07:40,720

that does happen

117

00:07:45,990 --> 00:07:42,800

uh dragon will

118

00:07:49,189 --> 00:07:46,000

autonomously retract

119

00:07:50,629 --> 00:07:49,199

and wait until we do

120

00:07:51,749 --> 00:07:50,639

get some good

121

00:07:55,029 --> 00:07:51,759

visual

122

00:07:56,390 --> 00:07:55,039

views for these systems to

123

00:07:58,390 --> 00:07:56,400

dock

124

00:07:59,909 --> 00:07:58,400

with each other so

125

00:08:01,430 --> 00:07:59,919

that's right crew dragon resilience

126

00:08:03,189 --> 00:08:01,440

actually coming into view a little bit

127

00:08:04,150 --> 00:08:03,199

clearer now from the cameras aboard

128

00:08:06,790 --> 00:08:04,160

dragon

129

00:08:10,710 --> 00:08:06,800

dock to the zenith port

130

00:08:13,670 --> 00:08:12,469

yeah that was on the upper portion of

131

00:08:14,869 --> 00:08:13,680

the screen

132

00:08:17,510 --> 00:08:14,879

that's right

133

00:08:21,589 --> 00:08:17,520

now again to reiterate uh

134

00:08:22,629 --> 00:08:21,599

dragon has passed waypoint 1 220 meters

135

00:08:24,950 --> 00:08:22,639

in front

136

00:08:26,550 --> 00:08:24,960

of the station executed a burn maneuver

137

00:08:28,469 --> 00:08:26,560

to go ahead and move in so we're in

138

00:08:34,149 --> 00:08:28,479

approach one

139

00:08:38,870 --> 00:08:37,750

now inside the keep out sphere

140

00:08:40,790 --> 00:08:38,880

it's currently in the process of

141

00:08:42,310 --> 00:08:40,800

extending its soft capture ring that

142

00:08:43,829 --> 00:08:42,320

will be used to dock to the

143

00:08:46,070 --> 00:08:43,839

international docking adapter of the

144

00:08:48,070 --> 00:08:46,080

forward port

145

00:08:49,990 --> 00:08:48,080

we're monitoring the visual systems of

146

00:08:52,870 --> 00:08:50,000

dragon it would execute an automatic

147

00:08:54,790 --> 00:08:52,880

retreat if the sun was interfering

148

00:08:57,030 --> 00:08:54,800

with the optical systems as it makes its

149

00:08:59,829 --> 00:08:57,040

way towards an approach

150

00:09:02,230 --> 00:08:59,839

we're at about 150 meters away from the

151
00:09:03,190 --> 00:09:02,240
station

152
00:09:05,829 --> 00:09:03,200
we have

153
00:09:08,310 --> 00:09:05,839
such a great camera view here you can

154
00:09:10,230 --> 00:09:08,320
really see the detail

155
00:09:11,750 --> 00:09:10,240
on dragon

156
00:09:14,630 --> 00:09:11,760
again those four

157
00:09:16,790 --> 00:09:14,640
bulkhead thrusters

158
00:09:20,550 --> 00:09:16,800
you could almost read the logo the

159
00:09:22,150 --> 00:09:20,560
dragon logo on the side of the vehicle

160
00:09:23,670 --> 00:09:22,160
that's right we'll get even better views

161
00:09:26,310 --> 00:09:23,680
as it makes its way

162
00:09:27,430 --> 00:09:26,320
uh even closer to make contact and

163
00:09:30,230 --> 00:09:27,440

capture

164

00:09:31,509 --> 00:09:30,240
with the space station

165

00:09:33,590 --> 00:09:31,519
there it is

166

00:09:35,590 --> 00:09:33,600
yeah based on the trajectory here

167

00:09:37,430 --> 00:09:35,600
we may even anticipate a capture a

168

00:09:38,310 --> 00:09:37,440
little bit earlier than anticipating we

169

00:09:41,350 --> 00:09:38,320
were

170

00:09:44,070 --> 00:09:41,360
looking at about 2 10

171

00:09:45,590 --> 00:09:44,080
a.m pacific time

172

00:10:23,430 --> 00:09:45,600
it might be at uh

173

00:10:30,310 --> 00:10:25,829
the features of the space station

174

00:10:34,949 --> 00:10:32,389
you can see a lot of the detail there

175

00:10:36,470 --> 00:10:34,959
and as you mentioned the uh

176
00:10:38,150 --> 00:10:36,480
crew one

177
00:10:39,670 --> 00:10:38,160
dragon

178
00:10:41,030 --> 00:10:39,680
station on the big loop

179
00:10:45,670 --> 00:10:41,040
procedure review complete ready for

180
00:10:45,680 --> 00:10:50,470
houston copies

181
00:10:54,069 --> 00:10:51,829
all right that was confirmation from

182
00:10:55,670 --> 00:10:54,079
victor glover aboard the international

183
00:10:57,350 --> 00:10:55,680
space station from the

184
00:10:59,269 --> 00:10:57,360
space station side

185
00:11:02,990 --> 00:10:59,279
he is go for docking the soft capture

186
00:11:03,000 --> 00:11:22,550
115 meters in closing

187
00:11:27,509 --> 00:11:24,630
looking at your screen the port that we

188
00:11:29,750 --> 00:11:27,519

are going to be docking with is

189

00:11:32,069 --> 00:11:29,760

directly in the middle of the screen

190

00:11:51,750 --> 00:11:32,079

that circular area on the international

191

00:11:59,350 --> 00:11:54,629

station houston on two for ike report

192

00:12:00,310 --> 00:11:59,360

regarding ssc 17 and d2dm we are seeing

193

00:12:03,750 --> 00:12:00,320

some

194

00:12:06,150 --> 00:12:03,760

um strange configurations on the video

195

00:12:06,949 --> 00:12:06,160

and we would like to close and restart

196

00:12:29,030 --> 00:12:06,959

that

197

00:12:34,629 --> 00:12:30,949

okay so victor glover aboard the station

198

00:12:39,990 --> 00:12:37,110

and dragon spacex

199

00:12:42,310 --> 00:12:40,000

soft capturing extension is complete

200

00:12:44,470 --> 00:12:42,320

additionally we did beat the sunlight

201
00:12:57,509 --> 00:12:44,480
for the dragonite filters so we are not

202
00:13:01,990 --> 00:12:59,590
all right so that's great news we passed

203
00:13:04,069 --> 00:13:02,000
the 110 meter checkpoint that the ground

204
00:13:05,670 --> 00:13:04,079
operators were referencing

205
00:13:08,069 --> 00:13:05,680
making sure the sun wasn't interfering

206
00:13:08,949 --> 00:13:08,079
with the optical sensors the dragon eye

207
00:13:10,550 --> 00:13:08,959
uh

208
00:13:12,790 --> 00:13:10,560
that are part of the guidance and

209
00:13:15,430 --> 00:13:12,800
navigation and control system board

210
00:13:18,389 --> 00:13:15,440
dragon we passed that check mark we're

211
00:13:21,509 --> 00:13:18,399
good to go we beat the sun there

212
00:13:22,790 --> 00:13:21,519
uh so we're now inside 80 meters

213
00:13:25,670 --> 00:13:22,800

and closing

214

00:13:27,829 --> 00:13:25,680

dragon will pause at 20 meters that's

215

00:13:30,150 --> 00:13:27,839

designated as waypoint 2

216

00:13:31,990 --> 00:13:30,160

to conduct a go no go pole for the

217

00:13:33,990 --> 00:13:32,000

readiness on both the dragon side and

218

00:13:35,670 --> 00:13:34,000

the international space space station

219

00:13:38,550 --> 00:13:35,680

side making sure

220

00:13:41,030 --> 00:13:38,560

everyone is good for docking

221

00:13:46,870 --> 00:13:41,040

if we are go we expect a dock during

222

00:13:46,880 --> 00:14:09,910

expected in less than 20 minutes

223

00:14:13,110 --> 00:14:11,269

some of the features there you can see a

224

00:14:15,110 --> 00:14:13,120

lot of the visiting vehicles on board

225

00:14:17,110 --> 00:14:15,120

station at the bottom

226

00:14:18,790 --> 00:14:17,120

is a russian soyuz vehicle that

227

00:14:22,230 --> 00:14:18,800

delivered crew to the international

228

00:14:26,389 --> 00:14:24,550

uh just in front of that

229

00:14:28,069 --> 00:14:26,399

are actually above that is the crew

230

00:14:30,550 --> 00:14:28,079

dragon resilience

231

00:14:32,150 --> 00:14:30,560

dr the zenith port

232

00:14:34,629 --> 00:14:32,160

once crew dragon the devil arrives there

233

00:14:41,430 --> 00:14:34,639

will be two crew dragons attached to the

234

00:14:46,949 --> 00:14:44,870

in this view from crew dragon looking at

235

00:14:49,590 --> 00:14:46,959

the international space station it looks

236

00:14:51,910 --> 00:14:49,600

like it's this very slow and steady

237

00:14:56,230 --> 00:14:51,920

movement but in reality they're moving

238

00:14:58,069 --> 00:14:56,240

at 17 500 miles per hour

239

00:15:00,310 --> 00:14:58,079

the rendezvous operations are absolutely

240

00:15:01,990 --> 00:15:00,320

incredible

241

00:15:04,389 --> 00:15:02,000

you can sort of see the uh northrop

242

00:15:05,990 --> 00:15:04,399

grumman cygnus cargo craft as well some

243

00:15:20,790 --> 00:15:06,000

of the ultraflex solar arrays coming

244

00:15:29,670 --> 00:15:23,670

again you could see that crew one

245

00:15:34,470 --> 00:15:32,470

once crew 2

246

00:15:35,910 --> 00:15:34,480

docks to the international space station

247

00:15:39,910 --> 00:15:35,920

we will have

248

00:15:42,310 --> 00:15:39,920

two crew dragons docked at the same time

249

00:15:44,629 --> 00:15:42,320

for the first time

250

00:15:46,389 --> 00:15:44,639

that view right there was truly

251

00:15:49,030 --> 00:15:46,399

a representation truly of an

252

00:15:52,710 --> 00:15:49,040

international cooperation there

253

00:15:59,189 --> 00:15:52,720

the u.s built node 2 is where the dragon

254

00:16:08,389 --> 00:16:01,030

it was flanked by the european columbus

255

00:16:13,990 --> 00:16:11,430

spacex copies visors are down

256

00:16:16,069 --> 00:16:14,000

we may enter into a hold at waypoint 2

257

00:16:23,269 --> 00:16:16,079

we are still awaiting ground go for

258

00:16:23,279 --> 00:16:42,389

never copies

259

00:16:46,629 --> 00:16:44,790

the detail of this camera view is pretty

260

00:16:48,550 --> 00:16:46,639

incredible

261

00:16:50,550 --> 00:16:48,560

here from the international space

262

00:16:53,670 --> 00:16:50,560

station

263

00:17:13,189 --> 00:16:53,680

watching crew dragon as it is slowly

264

00:17:13,199 --> 00:17:16,630

and as expected a

265

00:17:16,640 --> 00:17:23,429

dragon holding at uh waypoint two

266

00:17:47,029 --> 00:17:25,669

that's at about 20 meters right in front

267

00:17:52,710 --> 00:17:49,270

if you're just now joining us we are

268

00:17:56,150 --> 00:17:52,720

just waiting for a confirmation for go

269

00:17:56,160 --> 00:18:01,510

currently holding dragon at waypoint 2.

270

00:18:07,110 --> 00:18:03,990

and again it looks like

271

00:18:09,110 --> 00:18:07,120

dragon is just paused

272

00:18:11,190 --> 00:18:09,120

and not even moving but

273

00:18:13,830 --> 00:18:11,200

again as we just mentioned

274

00:18:15,270 --> 00:18:13,840

both the space station and crew dragon

275

00:18:16,070 --> 00:18:15,280

are actually moving

276

00:18:23,350 --> 00:18:16,080

at

277

00:18:25,669 --> 00:18:23,360

so it's pretty incredible how it can

278

00:18:27,350 --> 00:18:25,679

hold these speeds

279

00:18:31,029 --> 00:18:27,360

so that it looks like they are just

280

00:18:34,710 --> 00:18:32,950

that's right teams on the ground both

281

00:18:36,470 --> 00:18:34,720

from the

282

00:18:38,310 --> 00:18:36,480

station side in mission control houston

283

00:18:40,310 --> 00:18:38,320

and mission control hawthorne

284

00:18:48,470 --> 00:18:40,320

just checking and verifying all systems

285

00:18:54,150 --> 00:18:50,870

and when we do begin docking there will

286

00:18:57,350 --> 00:18:54,160

be uh two portions of this there will be

287

00:18:59,669 --> 00:18:57,360

a soft capture followed by a hard

288

00:19:05,430 --> 00:18:59,679

capture

289

00:19:07,190 --> 00:19:05,440

that basically

290

00:19:09,110 --> 00:19:07,200

just connects the crew dragon to the

291

00:19:10,390 --> 00:19:09,120

space station

292

00:19:13,590 --> 00:19:10,400

to enable

293

00:19:15,830 --> 00:19:13,600

the hard capture which will be 12 hooks

294

00:19:30,549 --> 00:19:15,840

that will attach

295

00:19:33,990 --> 00:19:31,750

again we're standing by the

296

00:19:36,470 --> 00:19:34,000

international space station flying over

297

00:19:43,510 --> 00:19:36,480

the indian ocean now

298

00:19:47,270 --> 00:19:44,870

it's heading on a

299

00:19:49,270 --> 00:19:47,280

south easterly course

300

00:19:50,630 --> 00:19:49,280

just south of uh

301
00:19:52,390 --> 00:19:50,640
australia

302
00:19:54,950 --> 00:19:52,400
and should cross over the terminator

303
00:20:00,549 --> 00:19:54,960
line into the pacific ocean

304
00:20:05,510 --> 00:20:03,270
the expectation is for dragon to depart

305
00:20:06,549 --> 00:20:05,520
here from waypoint

306
00:20:08,710 --> 00:20:06,559
2

307
00:20:36,710 --> 00:20:08,720
and proceed on with docking ahead of

308
00:20:42,710 --> 00:20:39,590
you see this camera moving around again

309
00:20:46,390 --> 00:20:42,720
this is controlled from the ground from

310
00:20:49,430 --> 00:20:47,909
and they're maneuvering this camera

311
00:20:51,990 --> 00:20:49,440
around so we can

312
00:20:55,510 --> 00:20:52,000
just get a more detailed view of

313
00:20:56,950 --> 00:20:55,520

the crew 2 dragon endeavor patiently

314

00:20:59,350 --> 00:20:56,960

waiting

315

00:21:00,630 --> 00:20:59,360

docking to the international space space

316

00:21:02,870 --> 00:21:00,640

station

317

00:21:04,950 --> 00:21:02,880

dragon on his second flight

318

00:21:06,710 --> 00:21:04,960

about to dock to the forward end of the

319

00:21:08,470 --> 00:21:06,720

international space station for the

320

00:21:11,590 --> 00:21:08,480

second time

321

00:21:13,430 --> 00:21:11,600

station and endeavor on the big group

322

00:21:16,630 --> 00:21:13,440

ike we are not able to recover that

323

00:21:19,190 --> 00:21:16,640

video for the d2dm so you can close that

324

00:21:20,230 --> 00:21:19,200

window and we should be ready to press

325

00:21:40,789 --> 00:21:20,240

into

326
00:21:45,190 --> 00:21:43,669
you did hear uh that call out speak out

327
00:21:47,029 --> 00:21:45,200
to ike

328
00:21:56,630 --> 00:21:47,039
ike is actually referring to victor

329
00:22:02,230 --> 00:21:59,590
dragon spacex on the big loop ground is

330
00:22:04,390 --> 00:22:02,240
now go for final approach

331
00:22:06,549 --> 00:22:04,400
upon confirmation of crew readiness for

332
00:22:09,190 --> 00:22:06,559
final approach we will enable

333
00:22:11,510 --> 00:22:09,200
the approach please confirm readiness

334
00:22:13,110 --> 00:22:11,520
and a reminder once dragon is inside the

335
00:22:22,070 --> 00:22:13,120
crew hands-off point retreat and

336
00:22:22,080 --> 00:22:40,070
who is ready

337
00:22:45,909 --> 00:22:44,070
and got some good words that the crew

338
00:22:47,270 --> 00:22:45,919

is ready for

339

00:22:49,750 --> 00:22:47,280

the docking

340

00:22:51,029 --> 00:22:49,760

to the international space station

341

00:22:54,230 --> 00:22:51,039

[Music]

342

00:22:55,590 --> 00:22:54,240

they no longer will have a control of

343

00:22:57,350 --> 00:22:55,600

any aborts

344

00:22:59,110 --> 00:22:57,360

if there is an abort needed it will have

345

00:23:01,270 --> 00:22:59,120

to be done by the dragon autonomous

346

00:23:09,909 --> 00:23:01,280

youth and on the big loop monitor per

347

00:23:09,919 --> 00:23:26,070

copy

348

00:23:30,630 --> 00:23:28,070

again we uh are

349

00:23:33,110 --> 00:23:30,640

now moving into the chop

350

00:23:35,350 --> 00:23:33,120

which is the crew hands-off point

351
00:23:37,110 --> 00:23:35,360
as i was mentioning earlier if there is

352
00:23:41,029 --> 00:23:37,120
an abort it will need to be done

353
00:23:42,870 --> 00:23:41,039
autonomously by dragon

354
00:23:46,390 --> 00:23:42,880
all right we did get confirmation

355
00:23:49,590 --> 00:23:46,400
approach 2 has been initiated

356
00:23:52,070 --> 00:23:49,600
so dragon now making its way inside the

357
00:23:56,149 --> 00:23:52,080
20 meter hold point

358
00:23:58,470 --> 00:23:56,159
at about 18 meters and closing

359
00:23:59,990 --> 00:23:58,480
final approach of endeavor to dock with

360
00:24:01,350 --> 00:24:00,000
the international space station has

361
00:24:03,029 --> 00:24:01,360
started

362
00:24:38,710 --> 00:24:03,039
talking expected in about three and a

363
00:24:44,870 --> 00:24:41,830

and you can see on your screen as crew

364

00:24:47,510 --> 00:24:44,880

dragon slowly approaches

365

00:24:52,390 --> 00:24:47,520

towards that

366

00:24:57,510 --> 00:24:54,630

sorry we're 13 meters and closing making

367

00:24:58,830 --> 00:24:57,520

a slow and methodical approach

368

00:25:01,029 --> 00:24:58,840

to the docking

369

00:25:02,470 --> 00:25:01,039

port that's on the forward end of the

370

00:25:04,950 --> 00:25:02,480

international space station that

371

00:25:23,510 --> 00:25:04,960

international docking adapter where crew

372

00:25:35,029 --> 00:25:28,870

10 meters

373

00:25:38,549 --> 00:25:36,710

what that call out was this crew dragon

374

00:25:40,950 --> 00:25:38,559

is just 10 meters away

375

00:25:43,430 --> 00:25:40,960

from the international space station as

376

00:25:59,430 --> 00:25:43,440

it continues its approach for

377

00:26:04,950 --> 00:26:02,470

again docking will uh occur in two

378

00:26:06,230 --> 00:26:04,960

phases though there will be a soft

379

00:26:13,029 --> 00:26:06,240

capture

380

00:26:15,029 --> 00:26:13,039

12 physical hooks

381

00:26:19,110 --> 00:26:15,039

will connect

382

00:26:22,470 --> 00:26:19,120

the dragon to the space station

383

00:26:25,190 --> 00:26:22,480

great views dragon just six meters away

384

00:26:28,149 --> 00:26:25,200

as the station and dragon fly in tandem

385

00:26:30,789 --> 00:26:28,159

263 statute miles over the south indian

386

00:26:34,149 --> 00:26:30,799

ocean in the background five meters

387

00:26:56,230 --> 00:26:34,159

we're five meters and closing

388

00:27:01,909 --> 00:26:58,870

really start to see the detail on dragon

389

00:27:04,070 --> 00:27:01,919

there as it is closing in

390

00:27:05,750 --> 00:27:04,080

on docking

391

00:27:07,510 --> 00:27:05,760

that's right two and a half meters 30

392

00:27:42,149 --> 00:27:07,520

seconds

393

00:27:54,710 --> 00:27:44,549

dragon spacex on the big loop soft

394

00:28:00,830 --> 00:27:57,190

great news with that call out that's off

395

00:28:05,029 --> 00:28:03,350

confirmed that's right that saw capture

396

00:28:07,669 --> 00:28:05,039

time 208

397

00:28:09,590 --> 00:28:07,679

a.m pacific time 408

398

00:28:13,110 --> 00:28:09,600

a.m eastern

399

00:28:15,510 --> 00:28:13,120

station and dragon connected 264 statute

400

00:28:17,190 --> 00:28:15,520

miles over the south indian ocean

401
00:28:21,669 --> 00:28:17,200
endeavor connected to international

402
00:28:26,870 --> 00:28:24,149
there are still a few steps to complete

403
00:28:28,870 --> 00:28:26,880
before dragon is securely attached

404
00:28:36,470 --> 00:28:28,880
dragon spacex on the big loop soft

405
00:28:40,789 --> 00:28:37,990
that's good the ring retraction is

406
00:28:40,799 --> 00:28:46,149
ring retraction happening as expected

407
00:28:51,669 --> 00:28:48,950
and after the ring retracts

408
00:28:53,590 --> 00:28:51,679
12 hooks will latch six at a time to

409
00:28:55,830 --> 00:28:53,600
perform a hard capture

410
00:28:57,669 --> 00:28:55,840
and will officially mate

411
00:29:03,350 --> 00:28:57,679
a dragon to the international space

412
00:29:03,360 --> 00:29:09,269
got this really awesome view of dragon

413
00:29:14,549 --> 00:29:12,870

as it is connected to the port

414

00:30:06,950 --> 00:29:14,559

currently

415

00:30:10,870 --> 00:30:09,430

soft capture ring retraction does take

416

00:30:13,669 --> 00:30:10,880

some time

417

00:30:17,029 --> 00:30:13,679

it is uh continuing at its anticipated

418

00:30:18,710 --> 00:30:17,039

speed things are looking good

419

00:30:20,950 --> 00:30:18,720

again this is the first in a series of

420

00:31:07,590 --> 00:30:20,960

steps to officially mate dragon to the

421

00:31:11,750 --> 00:31:09,509

if you're just joining us we heard the

422

00:31:14,549 --> 00:31:11,760

call out for soft capture confirmed at

423

00:31:19,350 --> 00:31:14,559

208 a.m pacific time 408

424

00:31:24,789 --> 00:31:22,870

station and the dragon were 264

425

00:31:28,389 --> 00:31:24,799

statute miles over the south indian

426
00:31:30,310 --> 00:31:28,399
ocean at the time of contact and capture

427
00:31:33,509 --> 00:31:30,320
we're still in the process of retracting

428
00:31:37,430 --> 00:31:33,519
the soft capture ring

429
00:31:40,230 --> 00:31:37,440
and anticipating uh proceeding with

430
00:31:42,230 --> 00:31:40,240
the hard capture sequence where 12 hooks

431
00:31:43,830 --> 00:31:42,240
will drive to officially mate dragon

432
00:31:45,669 --> 00:31:43,840
with the international space station's

433
00:31:47,350 --> 00:31:45,679
international docking adapter at the

434
00:31:49,190 --> 00:31:47,360
forward port

435
00:31:52,470 --> 00:31:49,200
crew dragon endeavor docked to that

436
00:31:54,549 --> 00:31:52,480
forward board for the second time

437
00:31:56,710 --> 00:31:54,559
dragon spacex on the big loop ring

438
00:32:06,070 --> 00:31:56,720

retraction is complete docking sequence

439

00:32:06,080 --> 00:32:46,310

device

440

00:32:50,470 --> 00:32:48,230

if you're just now joining us as you can

441

00:32:52,070 --> 00:32:50,480

see on your screen crew dragon has made

442

00:32:54,830 --> 00:32:52,080

contact with

443

00:33:00,149 --> 00:32:54,840

the international space

444

00:33:17,750 --> 00:33:02,950

endeavor and station mcs is configured

445

00:33:21,750 --> 00:33:19,669

great timing there

446

00:33:24,310 --> 00:33:21,760

this is now the beginning of the hard

447

00:33:27,590 --> 00:33:24,320

capture sequence

448

00:33:30,230 --> 00:33:27,600

this is where 12 hooks will

449

00:33:34,789 --> 00:33:32,950

between dragon and the space station six

450

00:33:39,909 --> 00:33:34,799

hooks at a time

451

00:33:43,590 --> 00:33:42,149

that's right that mcs

452

00:33:45,509 --> 00:33:43,600

is just a

453

00:33:48,149 --> 00:33:45,519

configuring the international space

454

00:33:50,310 --> 00:33:48,159

station's attitude control

455

00:33:52,230 --> 00:33:50,320

it needed to be configured

456

00:33:54,470 --> 00:33:52,240

differently between a soft capture and

457

00:33:55,830 --> 00:33:54,480

hard capture sequence so now that that's

458

00:33:57,029 --> 00:33:55,840

been confirmed they can go ahead and

459

00:34:00,230 --> 00:33:57,039

press

460

00:34:02,950 --> 00:34:00,240

to drive the 12 hooks needed

461

00:34:05,029 --> 00:34:02,960

to confirm a hard capture

462

00:34:07,350 --> 00:34:05,039

to reiterate the uh

463

00:34:11,750 --> 00:34:07,360

dragon uh had contact and capture with

464

00:34:37,750 --> 00:34:11,760

the space station at 208 am pacific time

465

00:34:41,909 --> 00:34:39,990

space station and dragon crossing over

466

00:34:45,669 --> 00:34:41,919

the terminator line

467

00:34:47,510 --> 00:34:45,679

just south of australia

468

00:34:50,149 --> 00:34:47,520

about to head over the

469

00:34:52,710 --> 00:34:50,159

south pacific ocean

470

00:34:54,230 --> 00:34:52,720

start seeing the views of dragon get a

471

00:34:56,389 --> 00:34:54,240

little bit dimmer

472

00:35:40,390 --> 00:34:56,399

as we still undergo the hard capture

473

00:35:45,109 --> 00:35:42,150

all right again we're still undergoing

474

00:35:47,349 --> 00:35:45,119

the hard capture sequence there's 12

475

00:35:48,950 --> 00:35:47,359

hooks that drive to officially mate

476
00:35:53,270 --> 00:35:48,960
dragon to the international space

477
00:35:55,990 --> 00:35:53,280
station six of them driving currently

478
00:35:58,710 --> 00:35:56,000
station attitude configured to support

479
00:36:00,710 --> 00:35:58,720
the hard capture sequence now operating

480
00:36:02,710 --> 00:36:00,720
on control movement gyros to maintain

481
00:36:11,990 --> 00:36:02,720
attitude control during the hard capture

482
00:36:15,349 --> 00:36:13,589
all right and uh we have confirmation

483
00:36:17,270 --> 00:36:15,359
the first set of hooks

484
00:36:20,230 --> 00:36:17,280
all six have been driven

485
00:36:22,230 --> 00:36:20,240
they look good second set are driving

486
00:36:24,950 --> 00:36:22,240
and are looking good at the uh

487
00:36:34,630 --> 00:36:24,960
anticipated speed

488
00:36:38,069 --> 00:36:36,550

this will take just a couple more

489

00:36:41,589 --> 00:36:38,079
minutes

490

00:36:43,670 --> 00:36:41,599
for hard capture to complete

491

00:36:46,550 --> 00:36:43,680
as a reminder after

492

00:36:49,030 --> 00:36:46,560
hard capture is complete they do still

493

00:36:52,390 --> 00:36:49,040
have uh some more steps that they need

494

00:36:55,829 --> 00:36:52,400
to go through in in order to ensure that

495

00:36:58,310 --> 00:36:55,839
the space station and dragon are safe

496

00:37:01,030 --> 00:36:58,320
for crew ingress

497

00:37:02,790 --> 00:37:01,040
there will be the hatch opening

498

00:37:04,950 --> 00:37:02,800
as the crew

499

00:37:06,790 --> 00:37:04,960
as well the crew on board dragon as well

500

00:37:11,349 --> 00:37:06,800
as the the station will be walking

501
00:37:16,470 --> 00:37:14,150
prior to ingress of the crew crew on the

502
00:37:18,550 --> 00:37:16,480
international space station but once

503
00:37:36,310 --> 00:37:18,560
they do ingress on the station there

504
00:37:40,630 --> 00:37:38,950
again half of the hard capture hooks

505
00:37:44,069 --> 00:37:40,640
uh have been driven and locked into

506
00:37:45,829 --> 00:37:44,079
place the second set of six hooks

507
00:38:08,310 --> 00:37:45,839
12 total

508
00:38:12,069 --> 00:38:10,069
dragon spacex on the big loop hard

509
00:38:25,589 --> 00:38:12,079
capture is complete you are go to open

510
00:38:29,670 --> 00:38:27,670
all right crew dragon endeavor

511
00:38:31,670 --> 00:38:29,680
officially made it to the international

512
00:38:33,510 --> 00:38:31,680
space station that dynamic period of the

513
00:38:35,430 --> 00:38:33,520

docking phase is complete

514

00:38:36,710 --> 00:38:35,440

uh the crew inside dragon have been

515

00:38:38,950 --> 00:38:36,720

wearing their suits just as an

516

00:38:40,310 --> 00:38:38,960

extraordinary extra precaution

517

00:38:42,150 --> 00:38:40,320

uh but they can go ahead and pull up

518

00:38:43,589 --> 00:38:42,160

their visors

519

00:38:45,349 --> 00:38:43,599

it's going to be some time until the

520

00:38:46,710 --> 00:38:45,359

hatches themselves are open between

521

00:38:48,550 --> 00:38:46,720

dragon and the international space

522

00:38:51,270 --> 00:38:48,560

station still some uh things to

523

00:38:53,589 --> 00:38:51,280

configure on that side

524

00:38:55,670 --> 00:38:53,599

the vestibule on the international

525

00:38:58,310 --> 00:38:55,680

docking adapter

526
00:38:59,910 --> 00:38:58,320
that separates the hatches of dragon and

527
00:39:02,630 --> 00:38:59,920
the international space station that's

528
00:39:04,150 --> 00:39:02,640
been exposed to the vacuum of space and

529
00:39:05,990 --> 00:39:04,160
has had the sun shining on it

530
00:39:09,510 --> 00:39:06,000
periodically

531
00:39:11,589 --> 00:39:09,520
so when pressuring uh re-pressurizing

532
00:39:14,550 --> 00:39:11,599
the vestibule to equal the pressure

533
00:39:16,950 --> 00:39:14,560
inside the space station our chapter

534
00:39:21,670 --> 00:39:16,960
complete welcome to iss we are so

535
00:39:31,589 --> 00:39:23,430
thanks anna we're glad to be here we'll

536
00:39:36,390 --> 00:39:33,510
international space station commander

537
00:39:38,069 --> 00:39:36,400
shannon walker welcoming the crew

538
00:39:39,589 --> 00:39:38,079

now crew 2 officially made it to the

539

00:39:42,230 --> 00:39:39,599

international space station again it's

540

00:39:43,990 --> 00:39:42,240

going to be some time until they come in

541

00:39:46,069 --> 00:39:44,000

but uh commander of the international

542

00:39:49,589 --> 00:39:46,079

space station welcoming

543

00:40:08,150 --> 00:39:49,599

four new crew members for her expedition

544

00:40:11,990 --> 00:40:09,829

all right so again there's a series of

545

00:40:14,950 --> 00:40:12,000

steps here as we enter into an orbital

546

00:40:16,630 --> 00:40:14,960

night time completing the uh docking of

547

00:40:18,790 --> 00:40:16,640

crew dragon endeavour to the

548

00:40:19,589 --> 00:40:18,800

international space station for a second

549

00:40:23,270 --> 00:40:19,599

time

550

00:40:27,349 --> 00:40:23,280

that contact and uh capture occurring at

551
00:40:29,349 --> 00:40:27,359
208 am pacific time 508 a.m eastern

552
00:40:32,230 --> 00:40:29,359
we have a confirmed hard capture the

553
00:40:34,790 --> 00:40:32,240
umbilical is in motion to connect

554
00:40:36,790 --> 00:40:34,800
the station to the dragon and provide

555
00:40:38,470 --> 00:40:36,800
data and power and communication through

556
00:40:40,870 --> 00:40:38,480
that umbilical so it no longer has to

557
00:40:41,990 --> 00:40:40,880
rely on its own systems uh everything's

558
00:40:43,750 --> 00:40:42,000
looking good

559
00:40:46,470 --> 00:40:43,760
for that vehicle it's going to be some

560
00:40:48,390 --> 00:40:46,480
time again until we repressurize the

561
00:40:49,510 --> 00:40:48,400
vestibule and get those hatches open

562
00:40:52,069 --> 00:40:49,520
between

563
00:40:53,109 --> 00:40:52,079

the dragon and the international space

564

00:40:59,030 --> 00:40:53,119

station

565

00:41:07,990 --> 00:41:01,589

endeavour spacex docking sequence is

566

00:41:08,000 --> 00:41:16,790

thank you say thanks great to be here

567

00:41:20,950 --> 00:41:18,950

in some more official words that docking

568

00:41:23,109 --> 00:41:20,960

is complete

569

00:41:25,349 --> 00:41:23,119

the crew must be so excited

570

00:41:26,470 --> 00:41:25,359

to finally have arrived at the space

571

00:41:28,309 --> 00:41:26,480

station

572

00:41:29,589 --> 00:41:28,319

again there is some more steps that they

573

00:41:30,790 --> 00:41:29,599

will need to

574

00:41:33,589 --> 00:41:30,800

complete

575

00:41:36,870 --> 00:41:33,599

and some checks before they can ingress

576

00:41:39,349 --> 00:41:36,880

on the space station

577

00:41:40,390 --> 00:41:39,359

but the crew can now get out of their

578

00:41:42,069 --> 00:41:40,400

suits

579

00:41:44,230 --> 00:41:42,079

before moving into hatch operations so

580

00:41:45,349 --> 00:41:44,240

now they can get they can start to get

581

00:41:46,309 --> 00:41:45,359

comfortable

582

00:41:48,150 --> 00:41:46,319

again

583

00:41:50,309 --> 00:41:48,160

they no longer need these suits now that

584

00:41:52,630 --> 00:41:50,319

they have arrived at the space station

585

00:41:55,109 --> 00:41:52,640

that's right and so uh it'll be some

586

00:41:56,950 --> 00:41:55,119

time again until that uh

587

00:42:00,950 --> 00:41:56,960

area between the international space

588

00:42:02,470 --> 00:42:00,960

station and uh or the hatches

589

00:42:06,630 --> 00:42:02,480

ground are you ready for us to begin

590

00:42:11,030 --> 00:42:08,710

spacex copies you are go to begin suit

591

00:42:16,230 --> 00:42:11,040

dothing and audio configuration

592

00:42:16,240 --> 00:42:20,790

copy that's in work

593

00:42:24,790 --> 00:42:23,030

so again it'll take some time the crew

594

00:42:26,710 --> 00:42:24,800

will begin doffing or taking off their

595

00:42:30,150 --> 00:42:26,720

suits it'll be some time to repressurize

596

00:42:31,510 --> 00:42:30,160

the vestibule uh station side astronauts

597

00:42:34,230 --> 00:42:31,520

on the station side will configure the

598

00:42:35,910 --> 00:42:34,240

hatch getting ready to open that up and

599

00:42:37,990 --> 00:42:35,920

and welcome the crew inside the

600

00:42:39,589 --> 00:42:38,000

international space station it was a

601
00:42:42,870 --> 00:42:39,599
pretty great docking everything happened

602
00:42:45,349 --> 00:42:42,880
right on cue uh and as expected uh so it

603
00:42:47,270 --> 00:42:45,359
was a great to see crew dragon endeavour

604
00:42:48,950 --> 00:42:47,280
dock to the international space station

605
00:42:51,270 --> 00:42:48,960
once again we've enjoyed it from here in

606
00:42:53,190 --> 00:42:51,280
mission control hawthorne uh but to see

607
00:42:54,870 --> 00:42:53,200
how things turned out from the space

608
00:42:56,630 --> 00:42:54,880
station side of things as we work

609
00:42:58,550 --> 00:42:56,640
together uh to complete today's

610
00:43:00,470 --> 00:42:58,560
operation let's go to courtney beasley

611
00:43:06,230 --> 00:43:00,480
for a refresher on what's ahead now that

612
00:43:06,240 --> 00:43:12,630
happy thanks

613
00:43:16,950 --> 00:43:14,710

thanks gary it's great to see dragons

614

00:43:18,870 --> 00:43:16,960

successfully docked to the international

615

00:43:20,550 --> 00:43:18,880

space station even through the face

616

00:43:22,309 --> 00:43:20,560

masks you can see and feel the

617

00:43:24,630 --> 00:43:22,319

excitement in the room here in mission

618

00:43:26,790 --> 00:43:24,640

control houston now that we're docked

619

00:43:28,390 --> 00:43:26,800

victor glover is securing some hardware

620

00:43:30,950 --> 00:43:28,400

and then he'll move right into hatch

621

00:43:32,870 --> 00:43:30,960

operations first he will open the large

622

00:43:34,950 --> 00:43:32,880

hatch at node 2 forward giving him

623

00:43:36,150 --> 00:43:34,960

access inside the pressurized mating

624

00:43:37,750 --> 00:43:36,160

adapter

625

00:43:39,430 --> 00:43:37,760

then he will have to pressurize the

626

00:43:41,109 --> 00:43:39,440

vestibule which is the small space

627

00:43:43,750 --> 00:43:41,119

between the hatches on dragon and the

628

00:43:46,069 --> 00:43:43,760

space station this was exposed to vacuum

629

00:43:47,750 --> 00:43:46,079

prior to docking and he will need to

630

00:43:49,270 --> 00:43:47,760

fill it with air and make sure its

631

00:43:51,670 --> 00:43:49,280

pressure is nearly equal with the

632

00:43:52,630 --> 00:43:51,680

atmospheric pressures on dragon and the

633

00:43:54,069 --> 00:43:52,640

station

634

00:43:55,990 --> 00:43:54,079

he will use a small valve on the

635

00:43:57,589 --> 00:43:56,000

station's hatch to slowly introduce air

636

00:43:59,270 --> 00:43:57,599

into the vestibule and flight

637

00:44:01,030 --> 00:43:59,280

controllers here in houston will monitor

638

00:44:02,950 --> 00:44:01,040

the pressure and temperature readings

639

00:44:05,349 --> 00:44:02,960

inside and verify that everything is

640

00:44:07,510 --> 00:44:05,359

leak free before we get ready to open up

641

00:44:09,270 --> 00:44:07,520

the hatches we expect it to take about

642

00:44:11,670 --> 00:44:09,280

two hours to get everything pressurized

643

00:44:13,589 --> 00:44:11,680

and checked out before we open hatches

644

00:44:15,109 --> 00:44:13,599

with dragons successfully docked to the

645

00:44:16,550 --> 00:44:15,119

international space station that's the

646

00:44:18,230 --> 00:44:16,560

latest from here in mission control

647

00:44:22,150 --> 00:44:18,240

houston and back to the team over in

648

00:44:26,790 --> 00:44:24,870

all right thanks courtney

649

00:44:28,470 --> 00:44:26,800

as mentioned it will take some time to

650

00:44:29,829 --> 00:44:28,480

go ahead and go through those procedures

651
00:44:32,470 --> 00:44:29,839
but we'll stay with you throughout

652
00:44:34,230 --> 00:44:32,480
today's coverage uh of course one of the

653
00:44:36,309 --> 00:44:34,240
major things will be repressurizing the

654
00:44:38,390 --> 00:44:36,319
vestibule in between the hatches there's

655
00:44:39,750 --> 00:44:38,400
a hatch called the a pass hatch that's

656
00:44:41,990 --> 00:44:39,760
the hatch on the international space

657
00:44:44,550 --> 00:44:42,000
station side and then there's the dragon

658
00:44:46,550 --> 00:44:44,560
hatch itself in between is a vestibule

659
00:44:48,470 --> 00:44:46,560
that's currently at vacuum so in order

660
00:44:50,710 --> 00:44:48,480
to travel through both hatches you need

661
00:44:53,190 --> 00:44:50,720
to repressurize that uh now that there's

662
00:44:54,630 --> 00:44:53,200
uh a hard mate between the two vehicles

663
00:44:55,589 --> 00:44:54,640

uh they'll check the seal they'll do

664

00:44:57,430 --> 00:44:55,599

some leak checks as they're

665

00:45:01,190 --> 00:44:57,440

repressurizing the vestibule up to

666

00:45:04,630 --> 00:45:01,200

vacuum uh and that will take some time

667

00:45:17,750 --> 00:45:06,069

spacex has you loud and clear on the

668

00:45:22,630 --> 00:45:20,390

or you're hearing the crew uh inside

669

00:45:23,910 --> 00:45:22,640

endeavor go through their procedures one

670

00:45:25,750 --> 00:45:23,920

of the first things they're ready to do

671

00:45:27,430 --> 00:45:25,760

is take off those suits

672

00:45:31,829 --> 00:45:27,440

they had to wear it through several of

673

00:45:33,829 --> 00:45:31,839

the operations uh uh of a launch to

674

00:45:35,349 --> 00:45:33,839

from the kennedy space center to a

675

00:45:37,270 --> 00:45:35,359

docking with the international space

676

00:45:39,430 --> 00:45:37,280

station launch is a very dynamic

677

00:45:40,870 --> 00:45:39,440

activity so they had suits on up until

678

00:45:43,670 --> 00:45:40,880

orbital insertion and then they were

679

00:45:45,349 --> 00:45:43,680

able to doff their suits uh have a meal

680

00:45:46,390 --> 00:45:45,359

go to bed check out some of the systems

681

00:45:48,790 --> 00:45:46,400

wake up

682

00:45:51,270 --> 00:45:48,800

and then right before they entered into

683

00:45:52,950 --> 00:45:51,280

the approach phase of today's flight

684

00:45:54,470 --> 00:45:52,960

with the approach initiation burn they

685

00:45:55,829 --> 00:45:54,480

got their suits on

686

00:45:57,589 --> 00:45:55,839

and we're able to pressurize them and

687

00:45:59,510 --> 00:45:57,599

they help pressure throughout

688

00:46:01,910 --> 00:45:59,520

that sequence of today's flight until

689

00:46:03,270 --> 00:46:01,920

docking now they get to take it off uh

690

00:46:04,950 --> 00:46:03,280

they get to stretch out change into

691

00:46:07,270 --> 00:46:04,960

something a little bit more comfortable

692

00:46:09,589 --> 00:46:07,280

uh but the not too comfortable of course

693

00:46:10,790 --> 00:46:09,599

because they will be uh that we will

694

00:46:12,390 --> 00:46:10,800

have an event

695

00:46:14,630 --> 00:46:12,400

to welcome them on board the

696

00:46:16,950 --> 00:46:14,640

international space station

697

00:46:18,309 --> 00:46:16,960

we expect all 11 crew members to be

698

00:46:20,309 --> 00:46:18,319

there to welcome them it's going to be

699

00:46:22,390 --> 00:46:20,319

pretty crowded but it should be very

700

00:46:25,030 --> 00:46:22,400

exciting to see that many people on

701

00:46:27,349 --> 00:46:25,040

board the international space station

702

00:46:29,190 --> 00:46:27,359

and those call-outs that we just heard

703

00:46:32,950 --> 00:46:29,200

were they were checking they were doing

704

00:46:35,510 --> 00:46:32,960

com check with the uh crew dragon uh

705

00:46:37,670 --> 00:46:35,520

communications uh because they now taken

706

00:46:39,109 --> 00:46:37,680

off their suits they have comms through

707

00:46:40,390 --> 00:46:39,119

their suits but since they're not gonna

708

00:46:43,510 --> 00:46:40,400

be wearing their suits anymore they need

709

00:46:45,990 --> 00:46:43,520

to use the comms through dragon

710

00:46:47,750 --> 00:46:46,000

so very exciting uh it sounds like

711

00:46:52,950 --> 00:46:47,760

they're out they're getting out of their

712

00:46:55,829 --> 00:46:52,960

suits as we speak or doffing their suits

713

00:46:58,390 --> 00:46:55,839

and then we will soon begin

714

00:47:00,150 --> 00:46:58,400

the process to open up those hatches so

715

00:47:02,950 --> 00:47:00,160

that the crew can

716

00:47:05,829 --> 00:47:02,960

finally ingress onto the space station

717

00:47:07,990 --> 00:47:05,839

so it will take a little bit of time

718

00:48:55,109 --> 00:47:08,000

but we will be here with you through

719

00:49:00,470 --> 00:48:57,430

if you're just now joining us

720

00:49:03,030 --> 00:49:00,480

the crew 2

721

00:49:05,750 --> 00:49:03,040

crew has finally ducked to the

722

00:49:07,109 --> 00:49:05,760

international space station after an

723

00:49:08,950 --> 00:49:07,119

approximately

724

00:49:10,390 --> 00:49:08,960

23-hour

725

00:49:12,069 --> 00:49:10,400

ride

726

00:49:13,910 --> 00:49:12,079

from earth

727

00:49:16,470 --> 00:49:13,920

to the station

728

00:49:18,470 --> 00:49:16,480

again they are going to be performing a

729

00:49:21,670 --> 00:49:18,480

few a

730

00:49:25,190 --> 00:49:21,680

few procedures here before the crew 2

731

00:49:27,670 --> 00:49:25,200

can ingress onto the space station

732

00:49:31,750 --> 00:49:27,680

they will be opening the a pass hatch

733

00:49:35,349 --> 00:49:31,760

which is the space station side hatch

734

00:49:37,670 --> 00:49:35,359

followed by the dragon hatch

735

00:49:39,030 --> 00:49:37,680

but this will take some time

736

00:49:42,069 --> 00:49:39,040

they will need to repressurize the

737

00:49:43,109 --> 00:49:42,079

vestibule in between those two hatches

738

00:49:47,430 --> 00:49:43,119

before

739

00:49:52,069 --> 00:49:49,349

that's right the umbilical on the

740

00:49:55,829 --> 00:49:52,079

dragon side has been fully extended

741

00:49:57,510 --> 00:49:55,839

to provide power communications and data

742

00:49:59,190 --> 00:49:57,520

from the international space station to

743

00:50:02,230 --> 00:49:59,200

the dragons the dragon

744

00:50:04,390 --> 00:50:02,240

no longer needing to rely on its own

745

00:50:07,910 --> 00:50:04,400

power systems

746

00:50:12,390 --> 00:50:10,549

and of course when the hatches are open

747

00:50:13,990 --> 00:50:12,400

they'll be able to mix the air from the

748

00:50:16,150 --> 00:50:14,000

environment that's inside the space

749

00:50:18,230 --> 00:50:16,160

station with the dragon so it no longer

750

00:50:20,309 --> 00:50:18,240

needs to rely on its environmental

751
00:50:22,470 --> 00:50:20,319
control and life support systems

752
00:50:24,870 --> 00:50:22,480
in the meantime it is still doing so uh

753
00:50:27,030 --> 00:50:24,880
because the hatches are closed between

754
00:50:28,710 --> 00:50:27,040
both the dragon and the international

755
00:50:30,710 --> 00:50:28,720
space station there is a gap called the

756
00:50:32,470 --> 00:50:30,720
vestibule in between them as currently

757
00:50:34,870 --> 00:50:32,480
at vacuum

758
00:50:36,630 --> 00:50:34,880
that vestibule has been exposed to the

759
00:50:40,150 --> 00:50:36,640
vacuum of space on the forward end of

760
00:50:42,790 --> 00:50:40,160
the international docking adapter

761
00:50:44,340 --> 00:50:42,800
so when bringing the pressure back up

762
00:50:45,910 --> 00:50:44,350
there may be swings

763
00:50:47,510 --> 00:50:45,920

[Music]

764

00:50:49,349 --> 00:50:47,520

because of the temperature variation

765

00:50:51,430 --> 00:50:49,359

there may be swings

766

00:50:53,829 --> 00:50:51,440

that need to dampen out before an

767

00:50:55,510 --> 00:50:53,839

effective leak check could take place so

768

00:50:56,950 --> 00:50:55,520

the process of repressurizing the

769

00:50:59,750 --> 00:50:56,960

vestibule

770

00:51:01,430 --> 00:50:59,760

in between those two hatches does take

771

00:51:03,349 --> 00:51:01,440

quite a long time it's expected to be

772

00:51:06,150 --> 00:51:03,359

about two hours until both of the

773

00:51:07,510 --> 00:51:06,160

hatches are open

774

00:51:10,630 --> 00:51:07,520

because of the length of time of

775

00:51:12,950 --> 00:51:10,640

re-pressuring that vestibule

776

00:51:15,030 --> 00:51:12,960

now from the station's side

777

00:51:16,950 --> 00:51:15,040

uh victor glover will outfit the eight

778

00:51:17,990 --> 00:51:16,960

pass hatch that's the one on the station

779

00:51:20,710 --> 00:51:18,000

side

780

00:51:22,950 --> 00:51:20,720

he'll open it up and remove at once the

781

00:51:26,390 --> 00:51:22,960

vestibule is pressurized he'll open that

782

00:51:28,870 --> 00:51:26,400

up and remove the docking target

783

00:51:30,549 --> 00:51:28,880

and install some padding onto the a pass

784

00:51:32,549 --> 00:51:30,559

hatch

785

00:51:34,710 --> 00:51:32,559

so that there's no uh unnecessary

786

00:51:37,270 --> 00:51:34,720

contact as astronauts are coming through

787

00:51:38,870 --> 00:51:37,280

the hatch from crew dragon to come

788

00:51:40,790 --> 00:51:38,880

inside of the forward end of the

789

00:51:43,030 --> 00:51:40,800

international space station station

790

00:51:45,670 --> 00:51:43,040

houston on two

791

00:51:46,870 --> 00:51:45,680

on the big loops you are go to pick up

792

00:51:49,750 --> 00:51:46,880

and

793

00:51:52,150 --> 00:51:49,760

ingress part one step one

794

00:51:59,430 --> 00:51:52,160

note that the pre-ingress ventilation in

795

00:52:05,510 --> 00:52:01,589

okay picking up step one

796

00:52:07,670 --> 00:52:05,520

and 1.6 not required

797

00:52:09,589 --> 00:52:07,680

dragon spacex no response required but

798

00:52:19,430 --> 00:52:09,599

iss power connection has been

799

00:52:22,470 --> 00:52:20,870

they go so

800

00:52:24,790 --> 00:52:22,480

victor glover on the international space

801
00:52:25,990 --> 00:52:24,800
station side already going through his

802
00:52:27,910 --> 00:52:26,000
procedures

803
00:52:30,069 --> 00:52:27,920
to get the

804
00:52:31,990 --> 00:52:30,079
hatches configured for ingress

805
00:52:33,910 --> 00:52:32,000
essentially supporting the opening of

806
00:52:36,230 --> 00:52:33,920
the hatches repressurizing the vestibule

807
00:52:37,750 --> 00:52:36,240
there's a lot to happen uh before we can

808
00:52:39,910 --> 00:52:37,760
open up the hatch and welcome the crew

809
00:52:41,910 --> 00:52:39,920
on the inside

810
00:52:44,150 --> 00:52:41,920
the umbilical has been fully extended

811
00:52:46,150 --> 00:52:44,160
and we just got confirmation that dragon

812
00:52:47,990 --> 00:52:46,160
is drawing power from the international

813
00:52:48,950 --> 00:52:48,000

space station so the solar arrays on the

814

00:52:51,190 --> 00:52:48,960

station

815

00:52:53,270 --> 00:52:51,200

uh providing power downstream to the

816

00:52:55,430 --> 00:52:53,280

dragon dragon no lead no longer needing

817

00:52:58,829 --> 00:52:55,440

to rely on its power

818

00:53:03,750 --> 00:53:01,510

confirmed it will again take some time

819

00:53:05,430 --> 00:53:03,760

until the dragon hatches are open our

820

00:53:08,549 --> 00:53:05,440

dragon and space station hatches are

821

00:53:14,790 --> 00:53:11,190

and we've noticed in uh the for the past

822

00:53:15,990 --> 00:53:14,800

two times that crew dragons have docked

823

00:53:17,990 --> 00:53:16,000

to the station

824

00:53:21,510 --> 00:53:18,000

the past two times being when crew was

825

00:53:23,190 --> 00:53:21,520

aboard for demo 2 and for

826
00:53:25,109 --> 00:53:23,200
crew one

827
00:53:27,910 --> 00:53:25,119
we did notice that the crew inside

828
00:53:30,390 --> 00:53:27,920
dragon took some time before they to get

829
00:53:32,870 --> 00:53:30,400
themselves situated make sure everything

830
00:53:35,030 --> 00:53:32,880
on the dragon side was configured before

831
00:53:37,190 --> 00:53:35,040
they left it and entered into the

832
00:53:39,270 --> 00:53:37,200
international space station we should

833
00:53:40,630 --> 00:53:39,280
see celebratory hugs

834
00:53:43,910 --> 00:53:40,640
from the crew on board as they make

835
00:53:47,750 --> 00:53:45,910
as they'll be together for the next few

836
00:53:51,510 --> 00:53:47,760
days

837
00:53:54,710 --> 00:53:51,520
until they have to say farewell to the

838
00:53:56,549 --> 00:53:54,720

crew one astronauts

839

00:53:58,630 --> 00:53:56,559

aboard the international space station

840

00:54:00,390 --> 00:53:58,640

shannon walker handing over

841

00:54:06,710 --> 00:54:00,400

command of the international space

842

00:54:10,630 --> 00:54:08,470

uh before she does that she's going to

843

00:54:12,390 --> 00:54:10,640

hand command over to aki hoshide who's

844

00:54:14,630 --> 00:54:12,400

currently on board

845

00:54:16,390 --> 00:54:14,640

crew 2. he'll take the responsibility of

846

00:54:19,270 --> 00:54:16,400

international space station commander

847

00:54:20,790 --> 00:54:19,280

through the duration of expedition 65

848

00:54:23,190 --> 00:54:20,800

until he's ready to hand it off to the

849

00:54:24,790 --> 00:54:23,200

next crew

850

00:55:03,510 --> 00:54:24,800

that all happening in the next couple of

851
00:55:11,109 --> 00:55:06,789
crew dragon endeavor is docked to the

852
00:55:14,069 --> 00:55:11,119
international space station as we speak

853
00:55:17,030 --> 00:55:14,079
the crew on board the space station as

854
00:55:18,789 --> 00:55:17,040
well as crew 2 are preparing for

855
00:55:22,150 --> 00:55:18,799
a couple

856
00:55:23,990 --> 00:55:22,160
procedures here for hatch opening

857
00:55:26,230 --> 00:55:24,000
that is the hatch opening on the space

858
00:55:30,069 --> 00:55:26,240
station side as well as the crew dragon

859
00:55:35,030 --> 00:55:30,079
hatch and this will take approximately

860
00:55:38,950 --> 00:55:35,040
an hour a little over an hour and a half

861
00:55:39,910 --> 00:55:38,960
to walk through all of these procedures

862
00:55:41,910 --> 00:55:39,920
so though

863
00:55:46,069 --> 00:55:41,920

crew 2 is at the station on the big loop

864

00:55:50,950 --> 00:55:49,030

an iq copy and you are going to continue

865

00:56:00,789 --> 00:55:50,960

through step two

866

00:56:05,349 --> 00:56:03,589

as i mentioned they are walking through

867

00:56:06,789 --> 00:56:05,359

several procedures

868

00:56:09,109 --> 00:56:06,799

to get those

869

00:56:11,109 --> 00:56:09,119

two hatches open

870

00:56:13,349 --> 00:56:11,119

as you can hear that communication

871

00:56:15,030 --> 00:56:13,359

between victor glover on board the

872

00:56:17,589 --> 00:56:15,040

station

873

00:56:20,870 --> 00:56:17,599

with the ground team uh helping him out

874

00:56:24,870 --> 00:56:22,630

that first hash that he mentioned is the

875

00:56:26,789 --> 00:56:24,880

node two forward hatch

876
00:56:29,030 --> 00:56:26,799
from inside the

877
00:56:31,670 --> 00:56:29,040
node two segment of the international

878
00:56:32,870 --> 00:56:31,680
space station there are three hatches

879
00:56:35,430 --> 00:56:32,880
uh to get

880
00:56:36,789 --> 00:56:35,440
uh from node two all the way down to the

881
00:56:39,670 --> 00:56:36,799
dragon itself

882
00:56:42,630 --> 00:56:39,680
dragon spacex if desired reference

883
00:56:50,309 --> 00:56:42,640
procedure for decimal 400 for monitoring

884
00:56:50,319 --> 00:56:58,950
copy 400 for the festival depressed

885
00:57:04,789 --> 00:57:02,789
so now that node 2 forward hatch is open

886
00:57:08,309 --> 00:57:04,799
victor glover inside the pressurized

887
00:57:13,829 --> 00:57:10,870
down the pma is the

888
00:57:15,750 --> 00:57:13,839

a pass hatch the uh hatch that'll that

889

00:57:18,710 --> 00:57:15,760

separates the international space

890

00:57:21,589 --> 00:57:18,720

station now from the dragon

891

00:57:23,589 --> 00:57:21,599

with the no two forward hatch open

892

00:57:26,470 --> 00:57:23,599

victor glover can work to manually

893

00:57:28,230 --> 00:57:26,480

pressurize the vestibule and we just

894

00:57:29,510 --> 00:57:28,240

heard from here in mission control

895

00:57:32,549 --> 00:57:29,520

hawthorne

896

00:57:34,950 --> 00:57:32,559

that the crew on board dragon endeavor

897

00:57:37,670 --> 00:57:34,960

will be able to monitor the vestibule

898

00:58:45,750 --> 00:57:37,680

pressurization on their displays from

899

00:58:56,950 --> 00:58:47,750

you're getting a live look at both of

900

00:58:56,960 --> 00:59:27,430

zero nine three eight

901
00:59:32,470 --> 00:59:29,349
so you're looking at both of the flight

902
00:59:34,630 --> 00:59:32,480
control rooms on the left

903
00:59:37,829 --> 00:59:34,640
spacex headquarters in hawthorne

904
00:59:39,829 --> 00:59:37,839
california flight controllers uh there

905
00:59:41,670 --> 00:59:39,839
successfully uh monitoring the

906
00:59:43,670 --> 00:59:41,680
navigation of uh

907
00:59:45,589 --> 00:59:43,680
crew dragon endeavor that autonomously

908
00:59:46,470 --> 00:59:45,599
made its way

909
00:59:49,030 --> 00:59:46,480
from

910
00:59:50,950 --> 00:59:49,040
the kennedy space center in florida to

911
00:59:56,390 --> 00:59:50,960
the international space station docking

912
00:59:58,150 --> 00:59:56,400
at 2a 208 am pacific time 508 am eastern

913
01:00:00,230 --> 00:59:58,160

with the international space station as

914

01:00:01,510 --> 01:00:00,240

they are flying over the south indian

915

01:00:03,349 --> 01:00:01,520

ocean

916

01:00:06,069 --> 01:00:03,359

the control teams are now working to

917

01:00:07,990 --> 01:00:06,079

configure dragon for its stay aboard the

918

01:00:10,789 --> 01:00:08,000

international space station if hart

919

01:00:12,390 --> 01:00:10,799

mated it using 12 hooks that drive

920

01:00:14,390 --> 01:00:12,400

to connect it to the international

921

01:00:16,150 --> 01:00:14,400

docking adapter and have connected an

922

01:00:18,630 --> 01:00:16,160

umbilical and confirm that power is

923

01:00:20,870 --> 01:00:18,640

being drawn from the space station to

924

01:00:23,030 --> 01:00:20,880

the dragon dragon no longer needing to

925

01:08:39,910 --> 01:00:23,040

rely on its power source

926

01:08:44,070 --> 01:08:42,550

all right if you're just joining us uh

927

01:08:46,229 --> 01:08:44,080

you're getting a live view of both of

928

01:08:49,349 --> 01:08:46,239

the control rooms on the left is uh

929

01:08:51,189 --> 01:08:49,359

spacex mission control in hawthorne and

930

01:08:52,709 --> 01:08:51,199

on the right mission control houston

931

01:08:54,229 --> 01:08:52,719

with the international space station

932

01:08:56,630 --> 01:08:54,239

flight control room

933

01:08:58,630 --> 01:08:56,640

uh crew dragon endeavor is officially

934

01:09:01,430 --> 01:08:58,640

docked to the international space

935

01:09:03,510 --> 01:09:01,440

station and right now uh teams on both

936

01:09:05,829 --> 01:09:03,520

the station side and dragon side are

937

01:09:07,990 --> 01:09:05,839

working to get ready up to open up the

938

01:09:10,390 --> 01:09:08,000

hatches in between them it's going to

939

01:09:12,709 --> 01:09:10,400

take some time until we get to that

940

01:09:13,910 --> 01:09:12,719

point where we're able to open up the

941

01:09:15,590 --> 01:09:13,920

hatches

942

01:09:21,669 --> 01:09:15,600

the

943

01:09:24,789 --> 01:09:21,679

adapter he's working to

944

01:09:27,590 --> 01:09:24,799

manually pressurize the vestibule that

945

01:09:29,030 --> 01:09:27,600

exists between both of the hatches

946

01:09:31,189 --> 01:09:29,040

it's going to take some time because

947

01:09:32,470 --> 01:09:31,199

that vestibule has been exposed to

948

01:09:35,430 --> 01:09:32,480

vacuum

949

01:09:40,550 --> 01:09:35,440

since before crew dragon just docked at

950

01:09:43,189 --> 01:09:40,560

208 a.m pacific time for our 508 a.m

951
01:09:45,590 --> 01:09:43,199
eastern time and uh

952
01:09:48,709 --> 01:09:45,600
that uh because it has been exposed to

953
01:09:49,910 --> 01:09:48,719
vacuum the thermal environment causes it

954
01:09:52,309 --> 01:09:49,920
to

955
01:09:54,149 --> 01:09:52,319
be have a little bit of oscillation as

956
01:09:55,910 --> 01:09:54,159
the pressure is rising

957
01:09:58,790 --> 01:09:55,920
so they need to have some thermal

958
01:10:00,630 --> 01:09:58,800
equalization in the vestibule before

959
01:10:03,750 --> 01:10:00,640
beginning the pressurization to ensure

960
01:10:05,990 --> 01:10:03,760
that the leak checks are accurate so

961
01:10:08,229 --> 01:10:06,000
they do a leak check on the way up to

962
01:10:09,750 --> 01:10:08,239
pressure which is a little more than 14

963
01:10:11,510 --> 01:10:09,760

pounds per square inch they'll do a

964

01:10:13,110 --> 01:10:11,520

pressure check at five pounds per square

965

01:10:15,110 --> 01:10:13,120

inch make sure everything's good that

966

01:10:17,110 --> 01:10:15,120

the vestibule is holding pressure and

967

01:10:19,270 --> 01:10:17,120

then they'll continue on up

968

01:10:21,430 --> 01:10:19,280

to match the pressure between the

969

01:10:23,430 --> 01:10:21,440

international space station and the crew

970

01:10:24,790 --> 01:10:23,440

dragon

971

01:10:27,270 --> 01:10:24,800

in the meantime

972

01:10:29,110 --> 01:10:27,280

victor glover will open up the apas

973

01:10:31,030 --> 01:10:29,120

hatch on the international space station

974

01:10:33,110 --> 01:10:31,040

side that's the hatch that separates the

975

01:10:35,270 --> 01:10:33,120

vestibule from the dragon hatch

976

01:10:36,310 --> 01:10:35,280

he'll outfit the apas hatch by taking

977

01:10:38,790 --> 01:10:36,320

off the

978

01:10:42,070 --> 01:10:38,800

docking target which is a long rod with

979

01:10:44,310 --> 01:10:42,080

an x on it and was used for some of the

980

01:10:45,990 --> 01:10:44,320

optical navigation equipment on the crew

981

01:10:48,550 --> 01:10:46,000

dragon for dragon's approach and

982

01:10:49,990 --> 01:10:48,560

eventual docking to the station he'll

983

01:10:51,750 --> 01:10:50,000

remove that he'll put some pads on the

984

01:10:54,070 --> 01:10:51,760

eight pass hatch uh make sure no one

985

01:10:55,990 --> 01:10:54,080

bumps their head on the way in and then

986

01:10:57,910 --> 01:10:56,000

when he heads into the vestibule there

987

01:10:59,510 --> 01:10:57,920

is a little window hopefully he'll be

988

01:11:01,590 --> 01:10:59,520

able to wave to his crewmates before

989

01:11:03,350 --> 01:11:01,600

they actually open up the hatch of the

990

01:11:05,510 --> 01:11:03,360

dragon itself

991

01:11:07,430 --> 01:11:05,520

after both hatches are open

992

01:11:08,709 --> 01:11:07,440

the crews on both sides will get

993

01:11:11,030 --> 01:11:08,719

positioned

994

01:11:12,550 --> 01:11:11,040

well first the crew 2 astronauts will

995

01:11:14,870 --> 01:11:12,560

just make sure everything is ok on the

996

01:11:17,590 --> 01:11:14,880

endeavour side before they go ahead and

997

01:11:18,550 --> 01:11:17,600

officially leave that vehicle

998

01:11:21,270 --> 01:11:18,560

crew

999

01:11:23,030 --> 01:11:21,280

from inside endeavor will enter or

1000

01:11:25,430 --> 01:11:23,040

ingress into the international space

1001

01:11:27,030 --> 01:11:25,440

station one at a time being greeted by

1002

01:11:28,709 --> 01:11:27,040

the seven crew members that are

1003

01:11:31,350 --> 01:11:28,719

currently aboard the international space

1004

01:11:33,830 --> 01:11:31,360

station including crew one astronauts uh

1005

01:11:36,709 --> 01:11:33,840

you have mike hopkins victor glover and

1006

01:11:38,470 --> 01:11:36,719

shannon walker from nasa and uh suichi

1007

01:11:41,110 --> 01:11:38,480

naguchi from the japan aerospace

1008

01:11:44,870 --> 01:11:41,120

exploration agency also on board

1009

01:11:47,350 --> 01:11:44,880

arriving on a russian soyuz in april

1010

01:11:49,590 --> 01:11:47,360

earlier this month was mark vande high

1011

01:11:52,870 --> 01:11:49,600

of nasa and oleg novitskiy and piotr

1012

01:12:14,229 --> 01:11:52,880

dubrov from roscosmos dragon spacex for

1013

01:12:36,390 --> 01:12:16,790

we are about to transition to hardline

1014

01:12:41,990 --> 01:12:38,470

all right so you just heard the uh

1015

01:12:44,390 --> 01:12:42,000

confirmation uh the dragon and

1016

01:12:46,709 --> 01:12:44,400

uh international space station are mated

1017

01:12:48,070 --> 01:12:46,719

now by not only the international

1018

01:12:50,149 --> 01:12:48,080

docking adapter but there is an

1019

01:12:53,350 --> 01:12:50,159

umbilical that's extending to the space

1020

01:12:55,669 --> 01:12:53,360

station we did have confirmation that uh

1021

01:12:57,510 --> 01:12:55,679

we have power that's being drawn from

1022

01:12:58,709 --> 01:12:57,520

the space station to the dragon side so

1023

01:13:01,350 --> 01:12:58,719

they're configuring some of the other

1024

01:13:02,950 --> 01:13:01,360

channels including communication

1025

01:13:04,310 --> 01:13:02,960

so they'll configure that one at a time

1026

01:13:06,390 --> 01:13:04,320

some of the sequence of events that's

1027

01:13:07,830 --> 01:13:06,400

going to happen over the next couple of

1028

01:13:09,430 --> 01:13:07,840

hours until

1029

01:13:11,510 --> 01:13:09,440

as we continue

1030

01:13:13,590 --> 01:13:11,520

to repressurize the vestibule and get

1031

01:13:15,750 --> 01:13:13,600

the station and dragon outfitted to

1032

01:13:18,630 --> 01:13:15,760

eventually open up the hatches we'll be

1033

01:13:21,590 --> 01:13:18,640

with you throughout the entire duration

1034

01:13:23,430 --> 01:13:21,600

of uh this sequence until we have those

1035

01:13:25,189 --> 01:13:23,440

hatches open and provide a live coverage

1036

01:13:27,750 --> 01:13:25,199

of a welcome ceremony show the inside of

1037

01:13:30,149 --> 01:13:27,760

the space station and the crews of uh

1038

01:13:32,550 --> 01:13:30,159

dragon both brazilians and endeavour and

1039

01:13:34,070 --> 01:13:32,560

of course the ms-18 soyuz vehicle that

1040

01:13:37,110 --> 01:13:34,080

are all on board the international space

1041

01:20:38,390 --> 01:13:37,120

station now as part of expedition 65

1042

01:20:43,430 --> 01:20:41,270

and in denver houston on two on the big

1043

01:20:45,750 --> 01:20:43,440

loop for hardline

1044

01:20:47,830 --> 01:20:45,760

we are ready for context

1045

01:20:48,870 --> 01:20:47,840

with spacex

1046

01:21:26,070 --> 01:20:48,880

iss

1047

01:21:29,830 --> 01:21:27,669

all right so it's a little hard to see

1048

01:21:32,070 --> 01:21:29,840

from this view

1049

01:21:35,590 --> 01:21:32,080

uh it's a camera external camera view

1050

01:21:37,990 --> 01:21:35,600

aboard the international space station

1051

01:21:39,430 --> 01:21:38,000

on the port truss

1052

01:21:40,790 --> 01:21:39,440

you can sort of see the nose cone

1053

01:21:42,310 --> 01:21:40,800

flipped up but that's crew dragon

1054

01:21:44,550 --> 01:21:42,320

endeavor on the forward end of the

1055

01:21:48,470 --> 01:21:44,560

station it's hard mated

1056

01:21:49,830 --> 01:21:48,480

using 12 hooks that have driven to

1057

01:21:51,030 --> 01:21:49,840

hard capture

1058

01:21:53,910 --> 01:21:51,040

crew dragon endeavor to the

1059

01:21:56,310 --> 01:21:53,920

international space station

1060

01:21:59,350 --> 01:21:56,320

it's also connected by umbilical to the

1061

01:22:02,390 --> 01:21:59,360

station we've confirmed that power is

1062

01:22:04,709 --> 01:22:02,400

being drawn from the station to dragon

1063

01:22:07,990 --> 01:22:04,719

dragon no longer needing to rely on its

1064

01:22:09,590 --> 01:22:08,000
own internal systems for power

1065

01:22:12,709 --> 01:22:09,600
that umbilical also provides a

1066

01:22:15,510 --> 01:22:12,719
communication line

1067

01:22:17,910 --> 01:22:15,520
now coming up is will be a test of that

1068

01:22:20,390 --> 01:22:17,920
communication line between the teams

1069

01:22:21,750 --> 01:22:20,400
uh between the dragon itself crew dragon

1070

01:22:23,270 --> 01:22:21,760
endeavor and the international space

1071

01:22:24,629 --> 01:22:23,280
station and the ground teams making sure

1072

01:22:26,070 --> 01:22:24,639
that that connection

1073

01:22:28,229 --> 01:22:26,080
that we've been hearing throughout the

1074

01:22:30,149 --> 01:22:28,239
approaching and docking phase of today's

1075

01:22:32,870 --> 01:22:30,159
flight on the big loop

1076
01:22:40,790 --> 01:22:32,880
houston and station this is endeavor

1077
01:22:52,470 --> 01:22:42,550
and spacex has you loud and clear

1078
01:22:52,480 --> 01:22:58,310
and houston has you loud and clear

1079
01:23:02,310 --> 01:22:59,910
and this space station has you volunteer

1080
01:23:17,430 --> 01:23:02,320
on hardline

1081
01:23:22,229 --> 01:23:20,390
all right so the same control teams

1082
01:23:24,950 --> 01:23:22,239
that we we've been hearing through the

1083
01:23:27,910 --> 01:23:24,960
approach and docking phase of the flight

1084
01:23:29,990 --> 01:23:27,920
on the big loop that includes the uh

1085
01:23:32,070 --> 01:23:30,000
spacex flight controllers in mission

1086
01:23:34,310 --> 01:23:32,080
control hawthorne the voice you're

1087
01:23:37,350 --> 01:23:34,320
hearing is core or crew operations and

1088
01:23:39,910 --> 01:23:37,360

resource engineer arthur barry alt

1089

01:23:41,910 --> 01:23:39,920

he confirmed from here in hawthorne from

1090

01:23:44,149 --> 01:23:41,920

mission control houston capcom kathy

1091

01:23:45,750 --> 01:23:44,159

bolt confirmed the hardline

1092

01:23:47,189 --> 01:23:45,760

communication network is working on

1093

01:23:50,709 --> 01:23:47,199

board the international space station

1094

01:23:52,149 --> 01:23:50,719

that was the voice of victor glover

1095

01:23:54,550 --> 01:23:52,159

who's uh currently working through the

1096

01:23:56,709 --> 01:23:54,560

procedures for opening up the hatches

1097

01:23:57,830 --> 01:23:56,719

including the repressurization of the

1098

01:23:59,910 --> 01:23:57,840

vestibule

1099

01:24:02,870 --> 01:23:59,920

still awaiting some temperature

1100

01:24:05,030 --> 01:24:02,880

equalization there before that begins

1101

01:24:06,709 --> 01:24:05,040

but that'll be some of his next steps

1102

01:24:09,270 --> 01:24:06,719

and then aboard crew dragon endeavor

1103

01:24:11,830 --> 01:24:09,280

commander shin kimbro confirming uh that

1104

01:24:13,189 --> 01:24:11,840

that hardline communication is working

1105

01:24:14,870 --> 01:24:13,199

so we got good power and good

1106

01:24:16,550 --> 01:24:14,880

communication through the medical line

1107

01:24:18,149 --> 01:24:16,560

to internet to the

1108

01:24:19,430 --> 01:24:18,159

dragon from the international space

1109

01:24:21,030 --> 01:24:19,440

station

1110

01:24:22,149 --> 01:24:21,040

we'll continue to provide periodic

1111

01:24:23,590 --> 01:24:22,159

updates

1112

01:24:25,430 --> 01:24:23,600

throughout this sequence of

1113

01:24:27,189 --> 01:24:25,440

repressurizing the vestibule and opening

1114

01:24:28,950 --> 01:24:27,199

up the hatches configuring the dragon

1115

01:24:30,470 --> 01:24:28,960

and the international space station as

1116

01:36:37,990 --> 01:24:30,480

they are mated together

1117

01:36:46,070 --> 01:36:40,950

spacex endeavor for some reports on 4

1118

01:36:52,950 --> 01:36:48,310

spacex is ready to copy for 4 decimal

1119

01:36:59,830 --> 01:36:57,750

okay for tablet percentage ms-177

1120

01:37:02,310 --> 01:36:59,840

cdr 84

1121

01:37:06,950 --> 01:37:02,320

plt 87

1122

01:37:11,070 --> 01:37:08,950

all right spacex copies reading back

1123

01:37:14,950 --> 01:37:11,080

tablet powers is

1124

01:37:22,950 --> 01:37:14,960

ms-177 cdr is eight four

1125

01:37:22,960 --> 01:41:05,510

good read

1126
01:41:10,629 --> 01:41:08,149
station houston on two we've had a good

1127
01:41:12,629 --> 01:41:10,639
vestibule pressurization pressurization

1128
01:41:23,030 --> 01:41:12,639
and leak check you are going to pick up

1129
01:41:25,990 --> 01:41:24,390
all right that's great news uh picking

1130
01:42:09,590 --> 01:41:26,000
up in

1131
01:42:15,189 --> 01:42:12,470
if you're just now joining us

1132
01:42:17,669 --> 01:42:15,199
you are watching the live broadcast for

1133
01:42:21,430 --> 01:42:17,679
the crew 2 mission

1134
01:42:23,669 --> 01:42:21,440
for spacex and nasa the crew 2 dragon

1135
01:42:26,790 --> 01:42:23,679
endeavor has docked to the international

1136
01:42:28,870 --> 01:42:26,800
space station they're currently working

1137
01:42:30,709 --> 01:42:28,880
some procedures

1138
01:42:32,790 --> 01:42:30,719

to process

1139

01:42:35,189 --> 01:42:32,800

opening the apas hatch which is the

1140

01:42:38,390 --> 01:42:35,199

hatch on the international space station

1141

01:42:40,390 --> 01:42:38,400

side as well as the hatch on the dragon

1142

01:42:43,350 --> 01:42:40,400

crew dragon

1143

01:42:45,430 --> 01:42:43,360

prior to crew and ingress

1144

01:42:46,550 --> 01:42:45,440

onto the space station

1145

01:42:49,830 --> 01:42:46,560

and what you're looking at on your

1146

01:42:51,590 --> 01:42:49,840

screen is crew dragon endeavor

1147

01:42:53,270 --> 01:42:51,600

docked to the international space

1148

01:42:56,629 --> 01:42:53,280

station

1149

01:42:57,830 --> 01:42:56,639

we are hearing some call outs

1150

01:42:59,590 --> 01:42:57,840

as they're walking through some

1151
01:43:05,270 --> 01:42:59,600
procedures so we're

1152
01:43:37,430 --> 01:43:08,149
again this process does take a bit of

1153
01:43:37,440 --> 01:43:50,149
so if you're just joining us

1154
01:43:54,870 --> 01:43:52,390
if you're just joining us the

1155
01:43:57,189 --> 01:43:54,880
dragon itself is attached to the

1156
01:43:59,910 --> 01:43:57,199
international space station

1157
01:44:02,629 --> 01:43:59,920
the crew inside namely victor glover is

1158
01:44:04,709 --> 01:44:02,639
making incremental steps

1159
01:44:06,629 --> 01:44:04,719
to open up the hatches between the

1160
01:44:11,510 --> 01:44:06,639
international space station

1161
01:44:16,950 --> 01:44:13,510
glover uh waited for thermal

1162
01:44:19,270 --> 01:44:16,960
equalization of the vestibule in between

1163
01:44:20,790 --> 01:44:19,280

each of the hatches the station side and

1164

01:44:23,030 --> 01:44:20,800

the dragon side

1165

01:44:23,830 --> 01:44:23,040

after thermal equalization he brought it

1166

01:44:26,390 --> 01:44:23,840

up

1167

01:44:28,470 --> 01:44:26,400

to about five pounds per square inch

1168

01:44:30,709 --> 01:44:28,480

performed a leak check

1169

01:44:33,830 --> 01:44:30,719

and uh everything looked good so he

1170

01:44:35,910 --> 01:44:33,840

proceeded to increase the vestibule

1171

01:44:40,070 --> 01:44:35,920

pressure to equalize with the

1172

01:44:46,470 --> 01:44:44,070

with vestibule pressurization complete

1173

01:44:48,550 --> 01:44:46,480

and after a few checks

1174

01:44:53,590 --> 01:44:48,560

glover will be given the go to open up

1175

01:44:59,109 --> 01:44:56,229

once that's open he'll be able to uh

1176

01:45:01,189 --> 01:44:59,119

see the crew two astronauts inside the

1177

01:45:03,109 --> 01:45:01,199

dragon endeavor there's a small window

1178

01:45:04,229 --> 01:45:03,119

on the dragon hatch that he'll be able

1179

01:45:06,229 --> 01:45:04,239

to see them

1180

01:45:08,629 --> 01:45:06,239

and his main job before opening up that

1181

01:45:10,950 --> 01:45:08,639

hatch will be configuring the station

1182

01:45:13,350 --> 01:45:10,960

side hatch that hatch is configured with

1183

01:45:16,310 --> 01:45:13,360

a docking target

1184

01:45:19,750 --> 01:45:16,320

it's a small rod with an x on the end

1185

01:45:21,590 --> 01:45:19,760

that provided uh guidance for the

1186

01:45:23,350 --> 01:45:21,600

dragon during its approach to dock with

1187

01:45:25,750 --> 01:45:23,360

the international space station he'll

1188

01:45:27,030 --> 01:45:25,760

remove that docking target and provide

1189

01:45:29,109 --> 01:45:27,040

some padding

1190

01:45:31,189 --> 01:45:29,119

to allow the safe entry into the

1191

01:45:42,950 --> 01:45:31,199

international space station

1192

01:45:48,790 --> 01:45:45,109

victor glover is one of the nasa

1193

01:45:51,109 --> 01:45:48,800

astronauts that flew on crew one about

1194

01:45:52,629 --> 01:45:51,119

six months ago

1195

01:45:53,750 --> 01:45:52,639

so he is

1196

01:45:57,270 --> 01:45:53,760

the one

1197

01:46:01,109 --> 01:45:57,280

preparing uh who has been preparing uh

1198

01:46:03,189 --> 01:46:01,119

the space station for crew 2's arrival

1199

01:46:05,750 --> 01:46:03,199

this is

1200

01:46:08,149 --> 01:46:05,760

victor's first mission

1201
01:46:10,070 --> 01:46:08,159
on the international space station

1202
01:46:12,310 --> 01:46:10,080
first time that he

1203
01:46:15,590 --> 01:46:12,320
has been to space so it's it's pretty

1204
01:46:17,510 --> 01:46:15,600
cool that he gets to welcome the crew 2

1205
01:46:20,550 --> 01:46:17,520
team

1206
01:46:23,109 --> 01:46:20,560
and help get them on board the space

1207
01:46:32,149 --> 01:46:23,119
station station houston on 2 for node 2

1208
01:46:47,669 --> 01:46:33,590
yeah we were wondering if we could get

1209
01:46:47,679 --> 01:46:50,950
you're welcome on board

1210
01:46:59,350 --> 01:46:52,629
okay and we'll need the hi-def camera

1211
01:47:02,870 --> 01:47:00,870
right so we've been very lucky with some

1212
01:47:04,390 --> 01:47:02,880
of the external views here

1213
01:47:06,629 --> 01:47:04,400

this coming from a camera on the

1214

01:47:07,990 --> 01:47:06,639

japanese exposed facility pointing at

1215

01:47:09,990 --> 01:47:08,000

the forward end of the international

1216

01:47:14,229 --> 01:47:10,000

space station where the dragon is

1217

01:47:17,750 --> 01:47:16,149

very shortly with permission from victor

1218

01:47:19,510 --> 01:47:17,760

glover we should be getting some views

1219

01:47:21,669 --> 01:47:19,520

from the inside of the international

1220

01:47:23,830 --> 01:47:21,679

space station

1221

01:47:25,990 --> 01:47:23,840

and seeing what uh victor glover is up

1222

01:47:27,669 --> 01:47:26,000

to he's at the forward end inside the

1223

01:47:30,950 --> 01:47:27,679

pressurized mating adapter going through

1224

01:47:33,030 --> 01:47:30,960

his preceding procedures uh to uh

1225

01:47:34,470 --> 01:47:33,040

configure the a pass hatch getting it

1226

01:47:35,189 --> 01:47:34,480

ready to open

1227

01:47:37,109 --> 01:47:35,199

uh

1228

01:47:39,669 --> 01:47:37,119

we did hear a confirmation earlier that

1229

01:47:41,510 --> 01:47:39,679

the vestibule is pressurized between the

1230

01:47:43,510 --> 01:47:41,520

two hatches

1231

01:48:37,030 --> 01:47:43,520

those hatches being the station hatch

1232

01:48:46,149 --> 01:48:40,149

looks like we got that live view

1233

01:49:33,990 --> 01:48:48,229

i think that's suici on board the

1234

01:49:39,189 --> 01:49:36,629

colonel mike hopkins nasa astronaut

1235

01:49:41,270 --> 01:49:39,199

and commander of the crew one dragon

1236

01:49:43,270 --> 01:49:41,280

resilience

1237

01:49:44,870 --> 01:49:43,280

coming into frame as well

1238

01:49:46,709 --> 01:49:44,880

there are seven crew members currently

1239

01:49:48,070 --> 01:49:46,719

aboard the international space station

1240

01:49:49,830 --> 01:49:48,080

not counting

1241

01:49:52,470 --> 01:49:49,840

the uh crew two astronauts who are on

1242

01:49:55,189 --> 01:49:52,480

the other side of that hatch

1243

01:49:57,109 --> 01:49:55,199

once that hatch is open there will be 11

1244

01:50:29,669 --> 01:49:57,119

crew members on board the international

1245

01:50:33,030 --> 01:50:30,950

sort of forget that you don't really

1246

01:50:34,310 --> 01:50:33,040

need to be in an upright position to

1247

01:50:37,030 --> 01:50:34,320

work

1248

01:50:38,790 --> 01:50:37,040

from this orientation

1249

01:50:41,189 --> 01:50:38,800

we're looking sort of in an upright

1250

01:50:42,629 --> 01:50:41,199

position if you look down or nader from

1251
01:50:44,149 --> 01:50:42,639
this position you would go straight down

1252
01:50:46,870 --> 01:50:44,159
towards the earth but

1253
01:50:48,470 --> 01:50:46,880
uh you can see clearly suici naguchi

1254
01:50:51,830 --> 01:50:48,480
upside down

1255
01:51:12,629 --> 01:50:51,840
don't really need to be in a particular

1256
01:51:12,639 --> 01:51:21,750
coming into frame that is victor glover

1257
01:51:26,629 --> 01:51:24,790
and there's mark vanda high from nasa

1258
01:51:29,189 --> 01:51:26,639
who arrived earlier this month on the

1259
01:51:31,910 --> 01:51:29,199
soyuz msi 18 rocket launching from

1260
01:51:36,790 --> 01:51:34,149
with two russian cosmonauts oleg

1261
01:51:38,310 --> 01:51:36,800
novitskiy and piotr dubrov

1262
01:51:40,229 --> 01:51:38,320
they'll be joining for the welcome

1263
01:51:59,510 --> 01:51:40,239

ceremony to welcome the crew to

1264

01:51:59,520 --> 01:52:38,070

okay

1265

01:52:42,790 --> 01:52:40,550

another thing to point out you could see

1266

01:52:44,870 --> 01:52:42,800

uh that each of them are

1267

01:52:49,270 --> 01:52:44,880

just wearing socks

1268

01:52:53,270 --> 01:52:51,430

to be on the the space station since

1269

01:53:00,149 --> 01:52:53,280

they're not really walking anywhere

1270

01:53:04,070 --> 01:53:01,990

yeah they usually they use their hands

1271

01:53:06,229 --> 01:53:04,080

really to propel themselves from module

1272

01:53:07,990 --> 01:53:06,239

to module but their feet you can see

1273

01:53:09,669 --> 01:53:08,000

some of the blue handrails situated

1274

01:53:11,750 --> 01:53:09,679

around the international space station

1275

01:53:13,270 --> 01:53:11,760

there's a good shot of uh

1276

01:53:15,189 --> 01:53:13,280

how astronauts typically use those

1277

01:53:21,109 --> 01:53:15,199

handrails they'll wrap their feet

1278

01:53:24,870 --> 01:53:22,709

looks like the pressurized mating

1279

01:53:26,790 --> 01:53:24,880

adapter is used for some stowage so

1280

01:53:28,950 --> 01:53:26,800

there's regis

1281

01:53:31,109 --> 01:53:28,960

looks like uh

1282

01:53:34,470 --> 01:53:31,119

naguchi and glover are reconfiguring

1283

01:53:36,950 --> 01:53:34,480

some of the stowed items

1284

01:53:38,790 --> 01:53:36,960

to allow some room to open up the apas

1285

01:53:41,109 --> 01:53:38,800

hatch the hatch on the international

1286

01:53:43,030 --> 01:53:41,119

space station side

1287

01:53:45,270 --> 01:53:43,040

and provide a pathway for the crew 2

1288

01:54:23,189 --> 01:53:45,280

astronauts to come through the hatch to

1289

01:54:28,310 --> 01:54:25,830

so again the vestibule is pressurized

1290

01:54:29,510 --> 01:54:28,320

between the dragon hatch and the station

1291

01:54:32,070 --> 01:54:29,520

hatch

1292

01:54:34,629 --> 01:54:32,080

you can see uh naguchi working on the

1293

01:54:37,589 --> 01:54:34,639

station hatch his next procedure is to

1294

01:54:39,830 --> 01:54:37,599

go ahead and open it

1295

01:54:51,750 --> 01:54:39,840

and you can see confirmed a pass hatch

1296

01:54:55,669 --> 01:54:53,189

the gucci taking some initial

1297

01:54:57,270 --> 01:54:55,679

photographs

1298

01:54:58,790 --> 01:54:57,280

part of the procedures will be to survey

1299

01:55:01,270 --> 01:54:58,800

the hatch itself

1300

01:55:03,350 --> 01:55:01,280

inspect for any foreign object debris

1301
01:55:03,830 --> 01:55:03,360
houston

1302
01:55:06,629 --> 01:55:03,840
a station

1303
01:55:08,790 --> 01:55:06,639
hatch open and that's dry and seals are

1304
01:55:10,950 --> 01:55:08,800
clean

1305
01:55:17,109 --> 01:55:10,960
and houston copies and you can continue

1306
01:55:39,100 --> 01:55:19,669
dragon spacex for procedure 4 decimal

1307
01:55:39,110 --> 01:55:43,910
[Applause]

1308
01:55:49,430 --> 01:55:46,229
when you're ready with that a pass hatch

1309
01:55:53,510 --> 01:55:49,440
call that does unblock us to go into

1310
01:55:55,510 --> 01:55:53,520
section 5 of 4 decimal 400 when we get

1311
01:55:57,189 --> 01:55:55,520
there additionally when you're ready

1312
01:56:07,270 --> 01:55:57,199
we're ready to collect inventory in

1313
01:56:11,040 --> 01:56:09,589

okay inventory coming to you and we're

1314

01:56:13,430 --> 01:56:11,050

ready for section five after that

1315

01:56:16,310 --> 01:56:13,440

[Music]

1316

01:56:19,270 --> 01:56:16,320

spacex copies thanks

1317

01:56:21,589 --> 01:56:19,280

thank you for uh for the inventory so uh

1318

01:56:24,870 --> 01:56:21,599

just quickly compared to what i reported

1319

01:56:26,390 --> 01:56:24,880

prior the only delta is two bottles from

1320

01:56:28,629 --> 01:56:26,400

a location uh

1321

01:56:31,669 --> 01:56:28,639

sorry from pack

1322

01:56:33,350 --> 01:56:31,679

location nine all the rest is as per our

1323

01:56:35,589 --> 01:56:33,360

previous report so i'm not sure you need

1324

01:56:37,109 --> 01:56:35,599

all the details of what's remaining uh

1325

01:56:39,189 --> 01:56:37,119

because i kind of gave the detail of

1326

01:56:40,629 --> 01:56:39,199

what we consumed from the food locations

1327

01:56:42,950 --> 01:56:40,639

i can give you the details it's your

1328

01:56:45,109 --> 01:56:42,960

call

1329

01:56:47,109 --> 01:56:45,119

spacex copies if there's no delta from

1330

01:56:48,629 --> 01:56:47,119

your previous report we don't need it

1331

01:56:58,070 --> 01:56:48,639

but i will read back that was four

1332

01:56:58,080 --> 01:57:02,070

two bottles of two

1333

01:57:09,669 --> 01:57:06,070

copy that two bottles from two zero four

1334

01:57:12,870 --> 01:57:09,679

uh last question for section five of

1335

01:57:15,109 --> 01:57:12,880

four decimal four hundred does that

1336

01:57:17,270 --> 01:57:15,119

two bottle include the additional bottle

1337

01:57:19,270 --> 01:57:17,280

that will be used in step five decimal

1338

01:57:25,510 --> 01:57:19,280

one or will we require an additional

1339

01:57:29,750 --> 01:57:27,830

and that's a good question arthur and

1340

01:57:31,189 --> 01:57:29,760

we're working on this so you can add

1341

01:57:34,070 --> 01:57:31,199

another bottle

1342

01:57:37,030 --> 01:57:34,080

uh for uh this section and we'll grab it

1343

01:57:39,109 --> 01:57:37,040

from two over six

1344

01:57:50,830 --> 01:57:39,119

all right spacex copies thanks tomah

1345

01:57:56,070 --> 01:57:54,550

and tamal spacex last question

1346

01:57:58,310 --> 01:57:56,080

can you confirm

1347

01:58:01,030 --> 01:57:58,320

no food deltas from previous report or

1348

01:58:07,030 --> 01:58:01,040

did you also consume midday meals for

1349

01:58:11,430 --> 01:58:09,350

uh no no we didn't consume anything the

1350

01:58:13,589 --> 01:58:11,440

latest last food consumption was the one

1351

01:58:24,229 --> 01:58:13,599

i reported before

1352

01:58:28,390 --> 01:58:26,310

all right you just heard the core here

1353

01:58:30,070 --> 01:58:28,400

in mission control hawthorne

1354

01:58:32,950 --> 01:58:30,080

communicating with the crew on the

1355

01:58:34,629 --> 01:58:32,960

inside of the dragon they're behind this

1356

01:58:36,629 --> 01:58:34,639

uh camera view that you're seeing here

1357

01:58:38,070 --> 01:58:36,639

this is the center line camera of crew

1358

01:58:40,070 --> 01:58:38,080

dragon endeavor

1359

01:58:42,550 --> 01:58:40,080

you're getting a look at uh suichi

1360

01:58:44,070 --> 01:58:42,560

naguchi as he outfits the a pass hatch

1361

01:58:47,109 --> 01:58:44,080

getting ready

1362

01:58:48,709 --> 01:58:47,119

for the astronauts inside endeavor to

1363

01:58:51,669 --> 01:58:48,719

come through the hatch

1364

01:58:54,550 --> 01:58:51,679

the hatch to dragon is still closed

1365

01:58:57,109 --> 01:58:54,560

as naguchi continues to outfit that a

1366

01:58:59,510 --> 01:58:57,119

pass hatch he took some photographs upon

1367

01:59:00,629 --> 01:58:59,520

entering into the vestibule that you see

1368

01:59:02,790 --> 01:59:00,639

here

1369

01:59:05,189 --> 01:59:02,800

and took some photographs to survey the

1370

01:59:08,070 --> 01:59:05,199

apes hatch make sure the seals look good

1371

01:59:09,830 --> 01:59:08,080

uh reported that they all looked uh good

1372

01:59:10,550 --> 01:59:09,840

so he's continuing with the procedures

1373

01:59:13,189 --> 01:59:10,560

to

1374

01:59:13,990 --> 01:59:13,199

attach some pads and remove the docking

1375

01:59:17,589 --> 01:59:14,000

uh

1376

01:59:19,669 --> 01:59:17,599

rod from the center of the apas hatch

1377

01:59:21,830 --> 01:59:19,679

a pass standing for androgynous

1378

01:59:23,589 --> 01:59:21,840

peripheral assembly system just the

1379

01:59:31,510 --> 01:59:23,599

hatch on the station side the last one

1380

01:59:43,270 --> 01:59:34,229

dragon spacex question on procedure four

1381

01:59:47,589 --> 01:59:45,990

go ahead spacex

1382

01:59:50,870 --> 01:59:47,599

just wanted to follow up uh we want to

1383

01:59:53,030 --> 01:59:50,880

confirm that all four suits are drying

1384

02:00:00,709 --> 01:59:53,040

and then when ready

1385

02:00:04,470 --> 02:00:03,030

uh all four suits are drying uh some of

1386

02:00:06,550 --> 02:00:04,480

them have been uh

1387

02:00:09,350 --> 02:00:06,560

drying for an hour already and uh you

1388

02:00:15,350 --> 02:00:09,360

are welcome to come back on board

1389

02:00:20,149 --> 02:00:18,709

very cool got some words that we might

1390

02:00:23,589 --> 02:00:20,159

get some

1391

02:00:25,430 --> 02:00:23,599

camera views inside of crew dragon

1392

02:00:26,390 --> 02:00:25,440

with the crew 2

1393

02:00:28,709 --> 02:00:26,400

team

1394

02:00:31,430 --> 02:00:28,719

already dropped their suits

1395

02:00:33,270 --> 02:00:31,440

confirming that their suits are drying

1396

02:00:36,310 --> 02:00:33,280

as they are waiting

1397

02:00:44,390 --> 02:00:36,320

for ingress on the international space

1398

02:00:48,149 --> 02:00:46,070

what you're seeing on your screen is

1399

02:00:51,189 --> 02:00:48,159

suici naguchi

1400

02:00:58,149 --> 02:00:55,350

getting this vestibule area set up for

1401
02:01:02,870 --> 02:00:58,159
the crew 2 ingress prior to opening the

1402
02:01:08,790 --> 02:01:06,470
once that hatch is open uh the crew will

1403
02:01:10,870 --> 02:01:08,800
not immediately ingress onto the space

1404
02:01:13,990 --> 02:01:10,880
station they do need to follow a few

1405
02:01:16,149 --> 02:01:14,000
more procedures just to make sure

1406
02:01:18,790 --> 02:01:16,159
that everything is

1407
02:01:29,270 --> 02:01:18,800
good to go before they ingress on the

1408
02:01:36,149 --> 02:01:30,709
so you see some of the padding that's

1409
02:01:38,070 --> 02:01:36,159
needed to outfit that uh a pass hatch

1410
02:01:40,550 --> 02:01:38,080
he's just wrapping it around the metal

1411
02:01:43,830 --> 02:01:40,560
structure that is the uh station side

1412
02:01:47,589 --> 02:01:45,589
we'll do this to completion on the other

1413
02:01:49,990 --> 02:01:47,599

end we'll hopefully be getting some

1414

02:01:52,709 --> 02:01:50,000

views uh from the inside of the dragon

1415

02:01:55,030 --> 02:01:52,719

cabin and seeing both perspectives from

1416

02:02:03,350 --> 02:01:55,040

the dragon side dragon spacex for

1417

02:02:03,360 --> 02:02:08,070

thanks welcome to the morgan

1418

02:02:11,430 --> 02:02:09,350

all right we'll hopefully get those

1419

02:02:13,270 --> 02:02:11,440

views inside dragon soon meanwhile

1420

02:02:18,310 --> 02:02:13,280

switching to gucci continuing to outfit

1421

02:02:23,270 --> 02:02:20,870

again this is uh one of those uh steps

1422

02:02:25,109 --> 02:02:23,280

to get all of the hatches open

1423

02:02:27,189 --> 02:02:25,119

uh in between dragon

1424

02:02:30,470 --> 02:02:27,199

and uh the international space station

1425

02:02:32,629 --> 02:02:30,480

now getting views from inside dragon

1426

02:02:34,390 --> 02:02:32,639

the crew have doffed or taken off their

1427

02:02:36,229 --> 02:02:34,400

suits

1428

02:02:37,990 --> 02:02:36,239

and so now they're dressed and ready for

1429

02:02:40,310 --> 02:02:38,000

the welcome ceremony once they get on

1430

02:02:42,149 --> 02:02:40,320

board we'll have some hugs and they'll

1431

02:02:43,430 --> 02:02:42,159

have a chance uh to talk with some of

1432

02:02:45,990 --> 02:02:43,440

their crewmates before getting in front

1433

02:02:47,430 --> 02:02:46,000

of the camera to officially welcome the

1434

02:02:49,510 --> 02:02:47,440

crew to astronauts aboard the

1435

02:02:51,910 --> 02:02:49,520

international space station

1436

02:02:55,350 --> 02:02:51,920

an orbiting complex that will support a

1437

02:02:57,589 --> 02:02:55,360

crew of 11 uh until wednesday the 28th

1438

02:03:00,310 --> 02:02:57,599

is the planned undocking time for the

1439

02:03:01,830 --> 02:03:00,320

crew one astronaut suicina naguchi

1440

02:03:03,430 --> 02:03:01,840

currently one of those astronauts that

1441

02:03:07,350 --> 02:03:03,440

will be departing along with three

1442

02:03:09,270 --> 02:03:07,360

american astronauts including shane kim

1443

02:04:08,310 --> 02:03:09,280

mike hopkins

1444

02:04:11,830 --> 02:04:10,069

all right looks like naguchi has that a

1445

02:04:13,030 --> 02:04:11,840

pass hatch wrapped you can see just

1446

02:04:15,750 --> 02:04:13,040

above him

1447

02:04:16,790 --> 02:04:15,760

he used a series of padding and blankets

1448

02:04:19,109 --> 02:04:16,800

to

1449

02:04:21,189 --> 02:04:19,119

wrap the metal structure that is the uh

1450

02:04:33,750 --> 02:04:21,199

station side hatch and now he's inside

1451

02:04:36,310 --> 02:04:35,350

see some of the tubes he's bringing in

1452

02:04:38,870 --> 02:04:36,320

the

1453

02:04:41,189 --> 02:04:38,880

vestibule section that are peeking

1454

02:04:44,470 --> 02:04:41,199

through towards us on the pressurized

1455

02:04:47,910 --> 02:04:46,629

allow the circulation of some of the air

1456

02:04:50,310 --> 02:04:47,920

from

1457

02:04:52,390 --> 02:04:50,320

the station side and remove any carbon

1458

02:04:54,149 --> 02:04:52,400

pockets that may appear in the

1459

02:05:47,910 --> 02:04:54,159

environment

1460

02:05:52,229 --> 02:05:49,990

so we're a little more than an hour and

1461

02:05:53,589 --> 02:05:52,239

a half removed from

1462

02:05:55,510 --> 02:05:53,599

the docking

1463

02:05:57,430 --> 02:05:55,520

the official document time

1464

02:06:01,109 --> 02:05:57,440

endeavor station is ready for dragon

1465

02:06:01,119 --> 02:06:11,350

houston coffee

1466

02:06:11,360 --> 02:06:21,990

endeavor copies endeavors

1467

02:06:25,270 --> 02:06:23,910

that's astronaut mark van gaal coming in

1468

02:06:26,790 --> 02:06:25,280

to help out

1469

02:06:30,069 --> 02:06:26,800

the crew on both sides getting

1470

02:06:31,830 --> 02:06:30,079

confirmation the next steps underway to

1471

02:06:33,990 --> 02:06:31,840

get that other hatch open there's one

1472

02:06:35,189 --> 02:06:34,000

more hatch you see the station side

1473

02:06:36,629 --> 02:06:35,199

hatch open

1474

02:06:38,149 --> 02:06:36,639

at the back end of the pressurized

1475

02:06:41,109 --> 02:06:38,159

mating adapter there there's one more

1476

02:06:43,430 --> 02:06:41,119

hatch the dragon on the dragon side

1477

02:06:44,709 --> 02:06:43,440

and the crews on both ends are working

1478

02:06:46,390 --> 02:06:44,719

through to

1479

02:06:52,310 --> 02:06:46,400

open up that hatch and welcome the crew

1480

02:06:56,950 --> 02:06:55,189

just going to stand by for a few minutes

1481

02:06:58,470 --> 02:06:56,960

for pressure to equalize between the

1482

02:07:00,229 --> 02:06:58,480

international space station and the

1483

02:07:10,069 --> 02:07:00,239

dragon hatch before

1484

02:07:21,750 --> 02:07:11,990

and then deborah houston can you confirm

1485

02:07:21,760 --> 02:07:26,310

endeavour's ready endeavor's ready

1486

02:07:30,950 --> 02:07:28,550

okay station and endeavor standby for

1487

02:07:37,990 --> 02:07:30,960

equalization it's expected to take five

1488

02:07:38,000 --> 02:07:43,109

station copy

1489

02:07:43,119 --> 02:08:01,109

endeavor never copies

1490

02:08:04,550 --> 02:08:02,470

all right so you heard uh that

1491

02:08:06,390 --> 02:08:04,560

equalization time

1492

02:08:09,109 --> 02:08:06,400

the timer is set for about five and a

1493

02:08:10,629 --> 02:08:09,119

half minutes to allow that pressure to

1494

02:08:12,550 --> 02:08:10,639

equalize between

1495

02:08:14,229 --> 02:08:12,560

uh the pressure inside the environment

1496

02:08:16,950 --> 02:08:14,239

of the international space station and

1497

02:08:19,669 --> 02:08:16,960

the pressure inside uh the dragon that

1498

02:08:22,149 --> 02:08:19,679

pressure has to be equalized within both

1499

02:08:23,830 --> 02:08:22,159

spray spacecraft before the dragon hatch

1500

02:08:25,669 --> 02:08:23,840

is open one of the steps to open up that

1501
02:08:27,510 --> 02:08:25,679
final hatch

1502
02:08:29,910 --> 02:08:27,520
so we'll just stand by

1503
02:08:31,430 --> 02:08:29,920
as that equalization is underway in the

1504
02:08:32,870 --> 02:08:31,440
meantime you can see in the pressurized

1505
02:08:35,350 --> 02:08:32,880
mating adapter

1506
02:08:37,430 --> 02:08:35,360
uh mark vande high currently moving some

1507
02:08:39,510 --> 02:08:37,440
stowed items around

1508
02:08:41,109 --> 02:08:39,520
creating a clear pathway for the crew to

1509
02:08:42,550 --> 02:08:41,119
astronauts to enter the international

1510
02:08:45,470 --> 02:08:42,560
space station once they head through the

1511
02:08:48,310 --> 02:08:45,480
hatch being assisted by a

1512
02:08:50,550 --> 02:08:48,320
suicide victor glover who

1513
02:08:51,990 --> 02:08:50,560

was primed for monitoring crew dragon's

1514

02:09:22,229 --> 02:08:52,000

approach to the international space

1515

02:09:28,229 --> 02:09:24,629

so it looks like glover is uh resetting

1516

02:09:32,790 --> 02:09:30,950

that view provided a nice angle downward

1517

02:09:34,470 --> 02:09:32,800

into the pressurized mating adapter to

1518

02:09:36,950 --> 02:09:34,480

see some of the activities happening for

1519

02:09:38,629 --> 02:09:36,960

opening up the hatches

1520

02:09:40,229 --> 02:09:38,639

now glover's just getting that camera

1521

02:09:46,870 --> 02:09:40,239

set up for the next activity which will

1522

02:09:54,069 --> 02:09:50,629

putting it in a good position to frame

1523

02:09:56,870 --> 02:09:54,079

or or allow the to frame 11 astronauts

1524

02:09:58,629 --> 02:09:56,880

to squeeze into into that shot

1525

02:10:02,149 --> 02:09:58,639

i think that'll be uh

1526

02:10:07,350 --> 02:10:05,510

yeah that is quite a bit of people

1527

02:10:09,910 --> 02:10:07,360

especially for the international space

1528

02:10:54,390 --> 02:10:12,149

but it'll be really cool to see them all

1529

02:10:59,109 --> 02:10:56,709

so right now it's looking like the uh

1530

02:11:00,950 --> 02:10:59,119

procedures to undergo opening up the

1531

02:11:03,189 --> 02:11:00,960

hatch again we're still waiting for

1532

02:11:05,589 --> 02:11:03,199

pressure to equalize between the space

1533

02:11:07,589 --> 02:11:05,599

station and the dragon itself before

1534

02:11:09,030 --> 02:11:07,599

opening up that hatch but it seems like

1535

02:11:13,030 --> 02:11:09,040

we're on a good timeline to start a

1536

02:11:20,069 --> 02:11:15,109

that's expected to begin

1537

02:13:07,270 --> 02:11:22,310

should be 7 45

1538

02:13:10,950 --> 02:13:09,189

gathered inside node two now you see

1539

02:13:15,510 --> 02:13:10,960

over to the left

1540

02:13:20,310 --> 02:13:17,910

going from left to right we have

1541

02:13:23,510 --> 02:13:20,320

uh crew dragon resilience commander mike

1542

02:13:25,510 --> 02:13:23,520

hopkins followed by suici naguchi and

1543

02:13:55,750 --> 02:13:25,520

international space station commander

1544

02:14:00,229 --> 02:13:57,990

how do you fit 11 people on camera

1545

02:14:02,229 --> 02:14:00,239

that's what we want to know

1546

02:14:05,109 --> 02:14:02,239

and that's what it looked like they were

1547

02:14:08,870 --> 02:14:05,119

trying to figure out

1548

02:14:14,790 --> 02:14:10,950

probably where that camera should be and

1549

02:14:18,790 --> 02:14:17,189

i will get periodic handovers uh from

1550

02:14:20,550 --> 02:14:18,800

the views we were seeing onboard the

1551
02:14:23,109 --> 02:14:20,560
international space station as well as

1552
02:14:26,470 --> 02:14:24,870
the views being provided through

1553
02:14:28,870 --> 02:14:26,480
tracking and data relay satellites

1554
02:14:30,390 --> 02:14:28,880
geosynchronous satellites

1555
02:14:32,550 --> 02:14:30,400
that provide that

1556
02:14:34,390 --> 02:14:32,560
video feed from the international space

1557
02:14:36,870 --> 02:14:34,400
station right now you're looking at

1558
02:14:39,030 --> 02:14:36,880
emission control in hawthorne flight

1559
02:14:41,350 --> 02:14:39,040
controllers

1560
02:14:44,310 --> 02:14:41,360
looking after the dragon endeavor and

1561
02:14:48,310 --> 02:14:46,310
dragon will be configured for a long

1562
02:14:50,069 --> 02:14:48,320
duration stay aboard the international

1563
02:14:52,790 --> 02:14:50,079

space station eventually being

1564

02:14:55,510 --> 02:14:52,800

configured for a quiescent mode will

1565

02:14:57,750 --> 02:14:55,520

remain uh there for six months with

1566

02:15:00,550 --> 02:14:57,760

periodic checks of course to check on

1567

02:15:02,550 --> 02:15:00,560

the status and health of the spacecraft

1568

02:16:07,669 --> 02:15:02,560

itself before it departs six months down

1569

02:16:11,910 --> 02:16:09,830

and endeavor and station patch

1570

02:16:27,830 --> 02:16:11,920

equalization has started five and a half

1571

02:16:27,840 --> 02:16:32,230

coffees

1572

02:16:37,669 --> 02:16:35,830

all right so the pressure uh is

1573

02:16:40,070 --> 02:16:37,679

the equalization process has been

1574

02:16:42,790 --> 02:16:40,080

started between the international space

1575

02:16:49,110 --> 02:16:42,800

station and crew dragon endeavor

1576

02:16:53,589 --> 02:16:51,589

after that clock runs out

1577

02:16:55,669 --> 02:16:53,599

the teams will verify that the hatch is

1578

02:16:57,509 --> 02:16:55,679

good to open

1579

02:17:04,230 --> 02:16:57,519

between the dragon and the international

1580

02:17:09,509 --> 02:17:05,669

we're still tracking to start the

1581

02:17:12,950 --> 02:17:09,519

welcome ceremony at uh 4 45 a.m pacific

1582

02:17:14,709 --> 02:17:12,960

time 7 45 a.m eastern

1583

02:17:16,549 --> 02:17:14,719

we'll hopefully get to see the crew in

1584

02:17:18,150 --> 02:17:16,559

early but they'll be able to do some

1585

02:17:20,150 --> 02:17:18,160

hugs get settled

1586

02:17:22,150 --> 02:17:20,160

uh and then get in position to start the

1587

02:17:24,709 --> 02:17:22,160

the welcome ceremony we'll keep you up

1588

02:17:26,230 --> 02:17:24,719

to date if that date if that time does

1589

02:17:28,549 --> 02:17:26,240

change

1590

02:17:29,830 --> 02:17:28,559

but uh it seems we're looking good so

1591

02:17:32,950 --> 02:17:29,840

far

1592

02:17:34,389 --> 02:17:32,960

for crew drag for the endeavor crew to

1593

02:17:37,669 --> 02:17:34,399

enter into the international space

1594

02:17:42,230 --> 02:17:40,070

it looks like we got that live view back

1595

02:17:43,429 --> 02:17:42,240

on the international space station where

1596

02:17:46,870 --> 02:17:43,439

they are

1597

02:17:47,830 --> 02:17:46,880

preparing for the two crew 2 to ingress

1598

02:17:56,389 --> 02:17:47,840

and

1599

02:18:02,870 --> 02:17:59,270

you can kind of see them all

1600

02:18:04,469 --> 02:18:02,880

coordinating with each other on uh

1601
02:18:06,070 --> 02:18:04,479
where the cameras

1602
02:18:07,830 --> 02:18:06,080
need to be

1603
02:18:25,910 --> 02:18:07,840
and where they want to do this welcome

1604
02:18:31,509 --> 02:18:28,629
we're currently waiting for equalization

1605
02:18:33,669 --> 02:18:31,519
of pressure between the international

1606
02:18:35,110 --> 02:18:33,679
space station and crew dragon prior to

1607
02:19:29,750 --> 02:18:35,120
opening that

1608
02:19:33,429 --> 02:19:31,110
so again we're in the middle of a five

1609
02:19:34,629 --> 02:19:33,439
and a half hour five and a half minute

1610
02:19:36,790 --> 02:19:34,639
timer

1611
02:19:37,830 --> 02:19:36,800
as uh equalization is underway between

1612
02:19:40,709 --> 02:19:37,840
the

1613
02:19:42,870 --> 02:19:40,719

station

1614

02:19:45,669 --> 02:19:42,880

and uh pressure inside the crew dragon

1615

02:19:50,790 --> 02:19:47,349

so we'll just wait on the status after

1616

02:19:54,790 --> 02:19:50,800

that five and a half minute timer

1617

02:19:57,670 --> 02:19:54,800

and be okay to open up the dragon hatch

1618

02:19:59,429 --> 02:19:57,680

and maybe some time after the dragon

1619

02:20:02,150 --> 02:19:59,439

hatch is open until the crew 2

1620

02:20:06,469 --> 02:20:02,160

astronauts enter into the international

1621

02:20:11,750 --> 02:20:08,469

but we're tracking a welcome ceremony to

1622

02:20:13,670 --> 02:20:11,760

formally begin as of now uh in 45

1623

02:20:57,110 --> 02:20:13,680

minutes keep you up to date in case that

1624

02:20:59,910 --> 02:20:58,550

looks like we just have a different

1625

02:21:05,910 --> 02:20:59,920

camera view

1626

02:21:20,309 --> 02:21:10,150

that is jaxa astronaut suici

1627

02:21:24,790 --> 02:21:23,429

preparations happening on both sides

1628

02:21:26,710 --> 02:21:24,800

we're mostly getting views from the

1629

02:21:28,950 --> 02:21:26,720

international space station side but the

1630

02:21:30,790 --> 02:21:28,960

crew 2 astronauts are

1631

02:21:35,190 --> 02:21:30,800

inside the crew dragon capsule getting

1632

02:21:38,790 --> 02:21:36,550

because once they enter through the

1633

02:21:41,910 --> 02:21:38,800

hatch they'll

1634

02:21:43,910 --> 02:21:41,920

join the seven member crew of expedition

1635

02:21:46,309 --> 02:21:43,920

65 that's currently aboard the

1636

02:21:48,070 --> 02:21:46,319

international space station

1637

02:21:50,309 --> 02:21:48,080

uh and conduct a welcome ceremony we'll

1638

02:21:51,750 --> 02:21:50,319

see some hugs

1639

02:21:54,950 --> 02:21:51,760

and shared camaraderie among the

1640

02:21:58,230 --> 02:21:54,960

expedition 65 crew for a little bit

1641

02:22:00,790 --> 02:21:58,240

and then formally welcome them to the

1642

02:22:36,550 --> 02:22:00,800

to expedition 5 65

1643

02:22:36,560 --> 02:22:49,590

dragon spacex for 4 decimal 400

1644

02:22:55,270 --> 02:22:53,590

go ahead spacex on dragging the ground

1645

02:22:57,510 --> 02:22:55,280

just looking for a confirmation of

1646

02:23:04,710 --> 02:22:57,520

completion of section five of four

1647

02:23:09,349 --> 02:23:07,190

section 5 is complete

1648

02:23:12,230 --> 02:23:09,359

spacex copies thanks and additionally

1649

02:23:19,270 --> 02:23:12,240

last check is completion of procedure 4

1650

02:23:23,270 --> 02:23:20,710

yeah sorry we didn't let you know that

1651
02:23:36,630 --> 02:23:23,280
four decimal zero one two is complete

1652
02:23:41,349 --> 02:23:38,950
all right a few uh

1653
02:23:43,110 --> 02:23:41,359
checks from the uh crew operations

1654
02:23:45,590 --> 02:23:43,120
resource engineer

1655
02:23:52,230 --> 02:23:45,600
dragon spacex on the big loop for hatch

1656
02:23:52,240 --> 02:24:03,910
[Applause]

1657
02:24:09,190 --> 02:24:06,389
all right dragon you are go for hatch

1658
02:24:10,710 --> 02:24:09,200
opening per the decal on the hatch

1659
02:24:24,550 --> 02:24:10,720
followed by the remaining actions in

1660
02:24:29,270 --> 02:24:26,630
good words that they got the

1661
02:24:31,830 --> 02:24:29,280
go for opening the

1662
02:24:34,309 --> 02:24:31,840
dragon hatch

1663
02:24:36,389 --> 02:24:34,319

that's fantastic news we should

1664

02:24:37,750 --> 02:24:36,399

we can kind of see the hatch from this

1665

02:24:39,830 --> 02:24:37,760

angle hopefully

1666

02:24:41,030 --> 02:24:39,840

it remains unobstructed we may be able

1667

02:24:43,349 --> 02:24:41,040

to see the

1668

02:24:45,830 --> 02:24:43,359

yep yes

1669

02:24:48,469 --> 02:24:45,840

yes there it goes

1670

02:24:50,870 --> 02:24:48,479

again this is being opened from the

1671

02:24:54,309 --> 02:24:50,880

interior side of the

1672

02:25:00,309 --> 02:24:56,150

this is the crew 2

1673

02:25:04,710 --> 02:25:02,630

it looks like the crew on station is

1674

02:25:13,990 --> 02:25:04,720

getting excited

1675

02:25:14,000 --> 02:25:18,230

all right dragon hatch is open

1676
02:25:18,240 --> 02:25:50,630
already seeing a bunch of smiles

1677
02:25:54,230 --> 02:25:52,230
all right that dragon hatch the final

1678
02:25:55,910 --> 02:25:54,240
hatch that we've been waiting for since

1679
02:25:57,510 --> 02:25:55,920
uh

1680
02:26:00,389 --> 02:25:57,520
endeavor docked to the international

1681
02:26:01,670 --> 02:26:00,399
space station two hours ago 208 am

1682
02:26:09,590 --> 02:26:01,680
pacific

1683
02:26:09,600 --> 02:26:17,270
already seeing some smiles

1684
02:26:24,309 --> 02:26:20,070
so again as we mentioned uh the dragon

1685
02:26:25,510 --> 02:26:24,319
hatch is open but the crew 2

1686
02:26:27,510 --> 02:26:25,520
members

1687
02:26:29,190 --> 02:26:27,520
still need to finish walking through

1688
02:26:31,190 --> 02:26:29,200

some remaining procedures before they

1689

02:26:32,870 --> 02:26:31,200

can ingress onto the space station

1690

02:26:37,429 --> 02:26:32,880

including photos

1691

02:26:41,030 --> 02:26:39,990

you can see the oh great the crew posing

1692

02:26:43,030 --> 02:26:41,040

for some

1693

02:26:50,389 --> 02:26:43,040

some pictures there

1694

02:26:56,150 --> 02:26:52,389

spacex copies on the big loop hatch is

1695

02:26:59,990 --> 02:26:57,830

all right again the hatch was open at uh

1696

02:27:02,469 --> 02:27:00,000

405 am pacific

1697

02:27:03,670 --> 02:27:02,479

space station and dragon flying together

1698

02:27:05,510 --> 02:27:03,680

in unison

1699

02:27:09,190 --> 02:27:05,520

attached uh

1700

02:27:11,830 --> 02:27:09,200

endeavor attached at the forward port

1701
02:27:14,070 --> 02:27:11,840
those vehicles were 267 statute miles

1702
02:27:26,870 --> 02:27:14,080
over the south pacific to the east of

1703
02:27:26,880 --> 02:27:47,910
spacex copies 4 decimal 400 is complete

1704
02:27:52,550 --> 02:27:50,230
so as a reminder even though the dragon

1705
02:27:54,150 --> 02:27:52,560
hatch is open

1706
02:27:56,710 --> 02:27:54,160
it still may be a couple of minutes

1707
02:27:59,830 --> 02:27:56,720
until the

1708
02:28:01,670 --> 02:27:59,840
crew uh dragon endeavor astronauts

1709
02:28:03,110 --> 02:28:01,680
actually ingress or enter into the

1710
02:28:04,469 --> 02:28:03,120
international space station to be

1711
02:28:06,630 --> 02:28:04,479
welcomed by

1712
02:28:07,990 --> 02:28:06,640
all of the expedition 65 crew members

1713
02:28:10,870 --> 02:28:08,000

currently aboard who are eagerly

1714

02:28:12,710 --> 02:28:10,880

awaiting them uh to come on board their

1715

02:28:14,230 --> 02:28:12,720

new home the international space station

1716

02:28:15,910 --> 02:28:14,240

for the next six months

1717

02:28:18,230 --> 02:28:15,920

it's a couple of procedures you see some

1718

02:28:20,070 --> 02:28:18,240

of the uh air ducts houston dragon in

1719

02:28:22,790 --> 02:28:20,080

2-0 102

1720

02:28:24,950 --> 02:28:22,800

uh step six the singapore one and

1721

02:28:27,990 --> 02:28:24,960

translation complete your gofundme fan

1722

02:28:43,190 --> 02:28:29,270

you think all these will put that in

1723

02:28:48,469 --> 02:28:45,030

okay yeah so some of those procedures

1724

02:28:50,710 --> 02:28:48,479

that uh are happening on the dragon side

1725

02:28:52,710 --> 02:28:50,720

they're going to install some imv

1726

02:28:54,230 --> 02:28:52,720

ducting mixing the air

1727

02:28:57,510 --> 02:28:54,240

of the international space station

1728

02:28:59,270 --> 02:28:57,520

environment with the air inside the

1729

02:29:01,349 --> 02:28:59,280

crew dragon endeavour they're going to

1730

02:29:03,910 --> 02:29:01,359

seal some of the lyo or lithium

1731

02:29:06,630 --> 02:29:03,920

hydroxide cartridges that scrubbed

1732

02:29:08,550 --> 02:29:06,640

carbon dioxide inside the dragon capsule

1733

02:29:10,309 --> 02:29:08,560

on the ride up to the international

1734

02:29:11,830 --> 02:29:10,319

space station they're going to check

1735

02:29:13,349 --> 02:29:11,840

some vent valves so it may be some time

1736

02:29:15,590 --> 02:29:13,359

until we actually see them welcome to

1737

02:29:18,230 --> 02:29:15,600

board but just these last final checks

1738

02:29:19,750 --> 02:29:18,240

are critical before they leave the

1739

02:29:21,270 --> 02:29:19,760

capsule that brought them up to the

1740

02:29:23,510 --> 02:29:21,280

international space station make sure

1741

02:29:54,230 --> 02:29:23,520

it's good to go because it will remain

1742

02:29:59,910 --> 02:29:57,349

looks like the station side crew is

1743

02:30:02,070 --> 02:29:59,920

ready and they're just waiting for the

1744

02:30:05,510 --> 02:30:02,080

crew to crew

1745

02:30:07,349 --> 02:30:05,520

to ingress onto the space station here

1746

02:30:20,070 --> 02:30:07,359

in a few minutes once they finish their

1747

02:32:20,550 --> 02:30:23,110

and lots of smiles

1748

02:32:26,150 --> 02:32:23,270

if you're just now joining us

1749

02:32:29,270 --> 02:32:26,160

the crew 2

1750

02:32:31,590 --> 02:32:29,280

dragon endeavor is attached to the

1751

02:32:35,110 --> 02:32:31,600

international space station

1752

02:32:38,150 --> 02:32:35,120

we are just eagerly awaiting the crew

1753

02:32:40,870 --> 02:32:38,160

on board dragon to ingress onto the

1754

02:32:43,110 --> 02:32:40,880

space station here shortly

1755

02:32:45,830 --> 02:32:43,120

they're finishing their final procedures

1756

02:32:47,110 --> 02:32:45,840

both the a pass hatch and the dragon

1757

02:32:50,150 --> 02:32:47,120

hatch are

1758

02:32:55,830 --> 02:32:53,670

so it should just be a few minutes away

1759

02:32:58,550 --> 02:32:55,840

from the crew two

1760

02:33:04,230 --> 02:32:58,560

astronauts ingressing onto the space

1761

02:33:07,510 --> 02:33:05,990

meanwhile in the frame now you can see

1762

02:33:08,950 --> 02:33:07,520

the four-person

1763

02:33:11,110 --> 02:33:08,960

crew of

1764

02:33:12,389 --> 02:33:11,120

crew dragon resilience

1765

02:33:15,030 --> 02:33:12,399

from left to right you have victor

1766

02:33:18,150 --> 02:33:15,040

glover shannon walker suici naguchi and

1767

02:33:18,160 --> 02:33:38,230

and suici doing some flips for us

1768

02:33:44,389 --> 02:33:40,469

this is the crew one crew waiting to

1769

02:33:46,830 --> 02:33:44,399

welcome the crew 2 crew

1770

02:33:49,429 --> 02:33:46,840

whom they will hand the baton off

1771

02:33:52,070 --> 02:33:49,439

to and we'll spend

1772

02:33:54,950 --> 02:33:52,080

approximately five days with the crew

1773

02:33:57,830 --> 02:33:54,960

two astronauts

1774

02:33:59,830 --> 02:33:57,840

as they do a handover prior to

1775

02:34:04,070 --> 02:33:59,840

crew one

1776

02:34:56,950 --> 02:34:05,750

as early as april

1777

02:35:09,110 --> 02:34:59,270

three for endeavor

1778

02:35:12,389 --> 02:35:11,510

got some communications from houston to

1779

02:35:13,990 --> 02:35:12,399

the

1780

02:35:22,550 --> 02:35:14,000

crew 2

1781

02:35:27,510 --> 02:35:25,510

continuing with the next procedure

1782

02:35:30,630 --> 02:35:27,520

again they should be ingressing on the

1783

02:35:38,469 --> 02:35:30,640

international space station here

1784

02:35:44,070 --> 02:35:41,270

crew one crew hanging out on your screen

1785

02:35:44,080 --> 02:35:47,110

waiting for

1786

02:35:47,120 --> 02:35:55,990

crew 2 to ingress

1787

02:35:59,349 --> 02:35:57,750

again all the hatches are open between

1788

02:36:01,670 --> 02:35:59,359

the international space station and

1789

02:36:04,309 --> 02:36:01,680

dragon

1790

02:36:06,550 --> 02:36:04,319

the crew of endeavor just going through

1791

02:36:08,790 --> 02:36:06,560

some last minute checklists to make sure

1792

02:36:11,590 --> 02:36:08,800

that dragon endeavor is is configured

1793

02:36:13,910 --> 02:36:11,600

properly before they leave it which

1794

02:36:16,150 --> 02:36:13,920

successfully carried them from

1795

02:36:17,990 --> 02:36:16,160

the kennedy space center in florida to

1796

02:36:18,870 --> 02:36:18,000

the international space station over the

1797

02:36:23,349 --> 02:36:18,880

course

1798

02:36:25,030 --> 02:36:23,359

of uh just a little more than 23 hours

1799

02:36:36,070 --> 02:36:25,040

docking with the space station earlier

1800

02:36:40,469 --> 02:36:38,230

coming into frame here you see

1801
02:36:42,150 --> 02:36:40,479
at the forefront of the frame is uh nasa

1802
02:36:44,309 --> 02:36:42,160
astronaut mark vande high joining the

1803
02:36:45,910 --> 02:36:44,319
crew one astronauts

1804
02:36:48,630 --> 02:36:45,920
all of them currently members of

1805
02:36:50,710 --> 02:36:48,640
expedition 65

1806
02:36:52,230 --> 02:36:50,720
as part of their mission to stay on

1807
02:36:54,469 --> 02:36:52,240
board the international space station

1808
02:36:56,870 --> 02:36:54,479
for a long duration mission of science

1809
02:38:48,070 --> 02:36:56,880
maintenance technology demonstrations

1810
02:38:52,389 --> 02:38:49,670
if you're just now joining you are

1811
02:38:57,590 --> 02:38:52,399
watching the live broadcast for the crew

1812
02:39:02,070 --> 02:38:59,750
we are currently waiting

1813
02:39:04,150 --> 02:39:02,080

upon the ingress of the crew 2

1814

02:39:07,349 --> 02:39:04,160

astronauts onto the international space

1815

02:39:10,150 --> 02:39:07,359

station they have already docked

1816

02:39:19,190 --> 02:39:10,160

both the a pass hatch and the dragon

1817

02:39:23,990 --> 02:39:21,830

new to the frame on the left there is

1818

02:39:25,429 --> 02:39:24,000

cosmos cosmonaut oleg novitskiy he was

1819

02:39:28,309 --> 02:39:25,439

the commander of

1820

02:39:30,070 --> 02:39:28,319

the ms-18 soyuz spacecraft that's made

1821

02:39:32,309 --> 02:39:30,080

its way to the international space

1822

02:39:35,429 --> 02:39:32,319

station earlier this month

1823

02:39:36,870 --> 02:39:35,439

with nasa astronaut mark vandehei

1824

02:39:38,389 --> 02:39:36,880

also on board is

1825

02:39:39,750 --> 02:39:38,399

piotr dubrov

1826
02:39:41,190 --> 02:39:39,760
who hasn't been in front of the frame

1827
02:39:43,750 --> 02:39:41,200
yet but he'll be part of the welcome

1828
02:39:45,590 --> 02:39:43,760
ceremony as part of the 11 member crew

1829
02:42:05,590 --> 02:39:45,600
that makes up expedition

1830
02:42:05,600 --> 02:42:21,030
check

1831
02:42:38,230 --> 02:42:23,910
[Music]

1832
02:42:49,670 --> 02:42:40,070
how about now having things on works

1833
02:42:52,389 --> 02:42:51,030
and santa and we've been here yeah i'm

1834
02:43:18,710 --> 02:42:52,399
saying i'm gonna hear you that time

1835
02:43:25,349 --> 02:43:20,309
and shannon can you give us a shannon

1836
02:43:27,910 --> 02:43:26,230
sure

1837
02:43:31,269 --> 02:43:27,920
one two

1838
02:43:37,110 --> 02:43:31,279

three four five six

1839

02:43:37,120 --> 02:43:43,269

copy thank you we're checking

1840

02:43:43,279 --> 02:44:07,670

and that's a good voice check

1841

02:44:15,429 --> 02:44:09,990

and uh spacex and java are on space

1842

02:44:21,910 --> 02:44:17,110

spacex is with you on space to ground

1843

02:44:28,630 --> 02:44:25,110

um we were trying to install the lio

1844

02:44:33,750 --> 02:44:28,640

with the bag cover that is lyle

1845

02:44:39,830 --> 02:44:36,630

in the bag and in the mom after the

1846

02:44:43,990 --> 02:44:39,840

storage uh area and uh

1847

02:44:46,550 --> 02:44:44,000

while we were pushing in a toilet bag

1848

02:44:47,510 --> 02:44:46,560

and it cut that bag pretty

1849

02:44:49,510 --> 02:44:47,520

big

1850

02:44:51,030 --> 02:44:49,520

would you like us to proceed with this

1851
02:45:00,309 --> 02:44:51,040
or

1852
02:45:09,750 --> 02:45:02,150
copy that just to let you know the uh

1853
02:45:13,990 --> 02:45:11,349
copy that dragon

1854
02:45:16,070 --> 02:45:14,000
uh just to read back there is a tear in

1855
02:45:18,230 --> 02:45:16,080
the lyo bag as a result of trying to

1856
02:45:19,670 --> 02:45:18,240
insert into the

1857
02:45:21,110 --> 02:45:19,680
lyo slot

1858
02:45:25,349 --> 02:45:21,120
standby we're going to get you some

1859
02:45:29,590 --> 02:45:27,349
okay copy and we do have a camera

1860
02:45:34,469 --> 02:45:29,600
pointing at it right now

1861
02:45:34,479 --> 02:47:26,309
copy the how we see it thanks

1862
02:47:35,190 --> 02:47:29,030
dragon spacex can you confirm if it is

1863
02:47:41,429 --> 02:47:38,150

yeah the bio cartridge ii is in the bag

1864

02:47:47,990 --> 02:47:41,439

lighter cartridge one is secured in the

1865

02:47:48,000 --> 02:49:31,349

copy that stand by one

1866

02:49:37,349 --> 02:49:33,990

dragon spacex we're going to have you

1867

02:50:18,070 --> 02:49:37,359

stow that lyo cartridge without a bag

1868

02:50:21,269 --> 02:50:19,269

all right for those of you joining we're

1869

02:50:24,070 --> 02:50:21,279

in a handover period some of the

1870

02:50:25,910 --> 02:50:24,080

tracking and data relay satellites

1871

02:50:27,510 --> 02:50:25,920

geosynchronous satellites that provide

1872

02:50:29,110 --> 02:50:27,520

the video feeds we were seeing and

1873

02:50:31,110 --> 02:50:29,120

enjoying from the international space

1874

02:50:33,990 --> 02:50:31,120

station as we eagerly await

1875

02:50:35,590 --> 02:50:34,000

the crew inside endeavor to enter into

1876

02:50:38,230 --> 02:50:35,600

the international space station the

1877

02:50:41,429 --> 02:50:38,240

expedition 65 crew members all seven of

1878

02:50:43,590 --> 02:50:41,439

them gathered uh inside uh of the

1879

02:50:45,590 --> 02:50:43,600

station on the other end of the dragon's

1880

02:50:47,110 --> 02:50:45,600

hatch eagerly awaiting for them to get

1881

02:50:48,389 --> 02:50:47,120

inside

1882

02:50:50,230 --> 02:50:48,399

flight controllers here in mission

1883

02:50:53,190 --> 02:50:50,240

control hawthorne just go undergoing a

1884

02:50:55,910 --> 02:50:53,200

series of checks final steps really

1885

02:50:57,830 --> 02:50:55,920

for the astronauts inside endeavor to

1886

02:50:59,349 --> 02:50:57,840

undergo before they

1887

02:51:01,030 --> 02:50:59,359

enter through the hatch and leave the

1888

02:51:03,190 --> 02:51:01,040

capsule that brought them up to the

1889

02:51:04,630 --> 02:51:03,200

international space station

1890

02:51:07,110 --> 02:51:04,640

some of the lyo cartridges you're

1891

02:51:09,429 --> 02:51:07,120

hearing are lithium hydroxide cartridges

1892

02:51:12,389 --> 02:51:09,439

that scrub carbon dioxide from the

1893

02:51:15,190 --> 02:51:12,399

environment of the dragon endeavor

1894

02:51:15,200 --> 02:51:30,070

now regaining some of those views

1895

02:51:34,469 --> 02:51:32,790

once the four-person crew of endeavor

1896

02:51:37,110 --> 02:51:34,479

comes on to the international space

1897

02:51:39,830 --> 02:51:37,120

station there will officially be 11 crew

1898

02:51:42,550 --> 02:51:39,840

members on board as part of expedition

1899

02:51:44,630 --> 02:51:42,560

65.

1900

02:51:48,070 --> 02:51:44,640

we're still on track to start a welcome

1901
02:51:51,990 --> 02:51:48,080
ceremony here in a little uh less than

1902
02:51:57,110 --> 02:51:54,790
we'll have representatives

1903
02:52:00,150 --> 02:51:57,120
dragon spacex repeating a call we did

1904
02:52:02,790 --> 02:52:00,160
have a teachers handover want to confirm

1905
02:52:05,190 --> 02:52:02,800
that we will stow this cartridge without

1906
02:52:07,349 --> 02:52:05,200
a lyo bag we just want to verify that

1907
02:52:17,750 --> 02:52:07,359
the seals are secure on each side of the

1908
02:52:22,150 --> 02:52:20,469
and uh just to verify with this

1909
02:52:27,590 --> 02:52:22,160
fields are secure on

1910
02:52:27,600 --> 02:52:37,510
spacex copies thank you

1911
02:53:33,269 --> 02:52:40,150
and spacex please let us know what to do

1912
02:53:38,230 --> 02:53:35,670
so from left to right inside the

1913
02:53:40,950 --> 02:53:38,240

international space stations dragon

1914

02:53:43,510 --> 02:53:40,960

spacex copies we do want to save this

1915

02:53:45,590 --> 02:53:43,520

bag so we can look at the rip in the

1916

02:54:04,309 --> 02:53:45,600

future standby we're going to get you

1917

02:54:07,030 --> 02:54:05,830

still working through those last minute

1918

02:54:08,710 --> 02:54:07,040

procedures

1919

02:54:11,190 --> 02:54:08,720

again lyo

1920

02:54:13,349 --> 02:54:11,200

cartridges are lithium hydroxide uh

1921

02:54:16,550 --> 02:54:13,359

cartridges that scrub carbon dioxide

1922

02:54:18,550 --> 02:54:16,560

from the uh environment of inside crew

1923

02:54:19,910 --> 02:54:18,560

dragon endeavor

1924

02:54:21,750 --> 02:54:19,920

you're getting live views from the

1925

02:54:23,190 --> 02:54:21,760

international space station side from

1926

02:54:24,309 --> 02:54:23,200

left to right we have rose cosmos

1927

02:54:26,870 --> 02:54:24,319

cosmonaut

1928

02:54:28,389 --> 02:54:26,880

oleg novitskiy followed by international

1929

02:54:32,469 --> 02:54:28,399

space station commander and nasa

1930

02:54:37,110 --> 02:54:34,790

coming down from the uh

1931

02:54:48,389 --> 02:54:37,120

sorry could you repeat where to store

1932

02:54:53,269 --> 02:54:50,870

as stand by dragon we are

1933

02:54:57,990 --> 02:54:53,279

finding a good common bag to put it in

1934

02:55:09,750 --> 02:55:00,630

okay copy that we'll just spill it

1935

02:55:16,309 --> 02:55:12,389

copy dragon if possible we can also put

1936

02:55:23,750 --> 02:55:16,319

it in a trash bag in location 17 that

1937

02:55:28,389 --> 02:55:25,830

okay coffee we'll get a trash bag from

1938

02:55:29,830 --> 02:55:28,399

location one seven

1939

02:56:25,110 --> 02:55:29,840

bag

1940

02:56:29,269 --> 02:56:27,269

in this frame all seven crew members of

1941

02:56:30,389 --> 02:56:29,279

expedition 65 currently on board the

1942

02:56:32,550 --> 02:56:30,399

station

1943

02:56:36,150 --> 02:56:32,560

uh gathered to welcome

1944

02:56:38,230 --> 02:56:36,160

the crew to astronauts aboard endeavour

1945

02:56:40,950 --> 02:56:38,240

on the top left is uh nasa astronaut

1946

02:56:42,710 --> 02:56:40,960

victor glover you see soichi niguchi in

1947

02:56:45,269 --> 02:56:42,720

the foreground on the right there on the

1948

02:56:48,070 --> 02:56:45,279

far right is nasa astronaut mark vande

1949

02:56:52,150 --> 02:56:50,790

mike hopkins is just uh behind suichi

1950

02:56:55,190 --> 02:56:52,160

naguchi there

1951
02:56:58,469 --> 02:56:55,200
and roscosmos cosmonaut piotr dubrov

1952
02:57:00,870 --> 02:56:58,479
is on the zenith or uh space-facing side

1953
02:57:03,830 --> 02:57:00,880
sort of the ceiling from this shot

1954
02:57:05,670 --> 02:57:03,840
all gathered and eagerly awaiting for uh

1955
02:58:47,269 --> 02:57:05,680
the four-person crew of crew dragon

1956
02:58:54,309 --> 02:58:49,750
doing some backflips as they

1957
02:58:56,550 --> 02:58:54,319
eagerly await the crew to astronauts

1958
02:59:00,469 --> 02:58:56,560
to ingress on

1959
02:59:04,710 --> 02:59:00,479
to the international space station

1960
02:59:08,309 --> 02:59:04,720
the crew 2 crew is finishing some final

1961
02:59:15,429 --> 02:59:12,150
once they complete all those procedures

1962
02:59:17,429 --> 02:59:15,439
on board crew dragon

1963
02:59:24,870 --> 02:59:17,439

they should be able to ingress on the

1964

02:59:31,510 --> 02:59:28,630

once they ingress there will be some

1965

02:59:33,830 --> 02:59:31,520

welcoming hugs and smiles

1966

02:59:39,030 --> 02:59:33,840

and then we will have an official

1967

02:59:42,389 --> 02:59:40,550

it's been a long journey for the four

1968

02:59:45,590 --> 02:59:42,399

person crew

1969

02:59:47,030 --> 02:59:45,600

of endeavor took them 23 hours

1970

02:59:48,790 --> 02:59:47,040

to make their way

1971

02:59:50,389 --> 02:59:48,800

to dock to the international space

1972

02:59:52,070 --> 02:59:50,399

station earlier this morning that

1973

02:59:57,830 --> 02:59:52,080

docking time at uh

1974

03:00:04,070 --> 03:00:00,630

the dragon hatch was opened at 405 a.m

1975

03:00:09,670 --> 03:00:06,950

we're counting down to the uh

1976

03:00:11,670 --> 03:00:09,680

endeavor astronauts to enter into the

1977

03:00:14,950 --> 03:00:11,680

international space station and we'll

1978

03:00:16,790 --> 03:00:14,960

begin a formal welcome ceremony

1979

03:00:18,389 --> 03:00:16,800

to officially welcome endeavor to the

1980

03:00:20,070 --> 03:00:18,399

international space station we'll have

1981

03:00:23,830 --> 03:00:20,080

representatives

1982

03:00:26,309 --> 03:00:23,840

from the space agencies of the crew on

1983

03:00:28,710 --> 03:00:26,319

board endeavour including nasa and the

1984

03:00:31,030 --> 03:00:28,720

european space agency and the japan

1985

03:00:33,670 --> 03:00:31,040

aerospace exploration agency

1986

03:00:35,750 --> 03:00:33,680

chiming in to congratulate the crew two

1987

03:00:38,230 --> 03:00:35,760

astronauts and the support teams that

1988

03:01:42,389 --> 03:00:38,240

helped to get them to the orbiting

1989

03:01:42,399 --> 03:01:49,830

ingress

1990

03:01:49,840 --> 03:01:53,030

[Music]

1991

03:01:53,040 --> 03:02:10,870

ingress

1992

03:02:10,880 --> 03:02:15,269

endeavor arriving

1993

03:02:21,269 --> 03:02:17,990

we got some confirmation that the crew

1994

03:02:23,830 --> 03:02:21,279

is go for ingress and you can see

1995

03:02:25,830 --> 03:02:23,840

aki is the first to

1996

03:02:28,630 --> 03:02:25,840

ingress onto the international space

1997

03:02:30,870 --> 03:02:28,640

station and guinguin and

1998

03:02:35,269 --> 03:02:30,880

followed

1999

03:02:35,279 --> 03:02:39,510

lots of hugs and smiles right now

2000

03:02:44,870 --> 03:02:42,230

pilot uh megan mcarthur of crew 2 is

2001

03:02:47,510 --> 03:02:44,880

next

2002

03:02:48,630 --> 03:02:47,520

being welcomed by the expedition 65 crew

2003

03:02:49,429 --> 03:02:48,640

members

2004

03:03:03,990 --> 03:02:49,439

and

2005

03:03:08,950 --> 03:03:06,790

the eleven-person crew of expedition 65

2006

03:03:20,309 --> 03:03:08,960

now together inside no two of the

2007

03:03:25,510 --> 03:03:22,950

though we can't even hear audio in there

2008

03:03:28,469 --> 03:03:25,520

you could really feel the excitement

2009

03:03:31,910 --> 03:03:28,479

just by the looks on their faces

2010

03:03:38,830 --> 03:03:33,990

now they're getting ready for this

2011

03:03:43,190 --> 03:03:41,269

ceremony you can see them getting into

2012

03:03:44,150 --> 03:03:43,200

position

2013

03:03:46,550 --> 03:03:44,160

with

2014

03:03:49,110 --> 03:03:46,560

the tetris game of fitting 11 crew

2015

03:03:55,349 --> 03:03:49,120

members into a single frame begin

2016

03:03:58,710 --> 03:03:57,269

oh 12

2017

03:04:14,950 --> 03:03:58,720

quinn

2018

03:04:20,469 --> 03:04:16,870

station mrs houston are you ready for

2019

03:04:25,110 --> 03:04:22,550

houston the station we are ready for the

2020

03:04:33,429 --> 03:04:27,750

mr jersey please call station for voice

2021

03:04:39,110 --> 03:04:35,510

station this is steve jerzik how do you

2022

03:04:48,389 --> 03:04:41,030

steve we have you loud and clear welcome

2023

03:04:54,710 --> 03:04:51,670

hey man it is awesome to see the 11 of

2024

03:04:55,750 --> 03:04:54,720

you on station it's incredible

2025

03:04:58,630 --> 03:04:55,760

um

2026
03:05:02,230 --> 03:04:58,640
congratulations uh congratulations crew

2027
03:05:03,510 --> 03:05:02,240
2 on an amazing launch yesterday

2028
03:05:06,070 --> 03:05:03,520
come to kennedy space center and

2029
03:05:07,190 --> 03:05:06,080
watching launches never gets old

2030
03:05:09,750 --> 03:05:07,200
and um

2031
03:05:11,830 --> 03:05:09,760
and uh seeing the pre-dawn launch

2032
03:05:13,670 --> 03:05:11,840
yesterday was amazing so congratulations

2033
03:05:15,510 --> 03:05:13,680
i also want to congratulate the nasa and

2034
03:05:17,510 --> 03:05:15,520
spacex team for

2035
03:05:18,950 --> 03:05:17,520
our third commercial crew mission in

2036
03:05:22,070 --> 03:05:18,960
less than a year

2037
03:05:25,830 --> 03:05:22,080
a lot of firsts on this mission um

2038
03:05:27,349 --> 03:05:25,840

including the first uh crew handover of

2039

03:05:29,510 --> 03:05:27,359

commercial crew vehicle and it was it

2040

03:05:30,469 --> 03:05:29,520

was it was really cool during docking to

2041

03:05:33,110 --> 03:05:30,479

see

2042

03:05:34,790 --> 03:05:33,120

one dragon docked on the zenith port and

2043

03:05:38,309 --> 03:05:34,800

the other dragon coming in for for

2044

03:05:40,389 --> 03:05:38,319

docking so it was it was amazing um

2045

03:05:43,590 --> 03:05:40,399

april has been an amazing month and a

2046

03:05:44,550 --> 03:05:43,600

really busy month for for iss

2047

03:05:45,830 --> 03:05:44,560

um

2048

03:05:46,710 --> 03:05:45,840

with uh

2049

03:05:50,309 --> 03:05:46,720

mark

2050

03:05:52,309 --> 03:05:50,319

uh phr and olig launching to iss kate

2051
03:05:55,110 --> 03:05:52,319
and her russian colleagues coming back

2052
03:05:57,030 --> 03:05:55,120
uh crew two there now preparing for crew

2053
03:05:58,230 --> 03:05:57,040
one to come come back and i am really

2054
03:06:00,550 --> 03:05:58,240
excited

2055
03:06:01,910 --> 03:06:00,560
for all the research uh technology

2056
03:06:03,990 --> 03:06:01,920
development

2057
03:06:05,750 --> 03:06:04,000
um that is going to be able to be

2058
03:06:07,510 --> 03:06:05,760
enabled on station with these regular

2059
03:06:10,070 --> 03:06:07,520
crew rotations and having four crew up

2060
03:06:11,510 --> 03:06:10,080
there consistently it's not important

2061
03:06:13,590 --> 03:06:11,520
for advancing research technology

2062
03:06:16,150 --> 03:06:13,600
development to benefit folks in uh here

2063
03:06:17,830 --> 03:06:16,160

on earth but also to prepare for artemis

2064

03:06:19,910 --> 03:06:17,840

and our return to the moon and

2065

03:06:21,670 --> 03:06:19,920

eventually uh are preparing for human

2066

03:06:22,790 --> 03:06:21,680

missions to mars so it's just an

2067

03:06:25,910 --> 03:06:22,800

incredibly

2068

03:06:27,269 --> 03:06:25,920

exciting time for for iss

2069

03:06:30,309 --> 03:06:27,279

um

2070

03:06:33,429 --> 03:06:30,319

you know shane uh megan aki and thomas

2071

03:06:34,469 --> 03:06:33,439

uh we we thank tomas we tamar we thank

2072

03:06:37,510 --> 03:06:34,479

you for

2073

03:06:39,670 --> 03:06:37,520

um everything you do for for the agency

2074

03:06:42,389 --> 03:06:39,680

uh the country in the world

2075

03:06:44,550 --> 03:06:42,399

and uh and and we look forward to an

2076

03:06:45,510 --> 03:06:44,560

amazing expedition

2077

03:06:49,429 --> 03:06:45,520

um

2078

03:06:49,439 --> 03:06:54,469

you guys have had an amazing six months

2079

03:07:00,150 --> 03:06:56,950

mike uh victor

2080

03:07:01,269 --> 03:07:00,160

uh shannon and suici i've followed what

2081

03:07:03,190 --> 03:07:01,279

you've done

2082

03:07:04,710 --> 03:07:03,200

to upgrade the station and all the

2083

03:07:05,910 --> 03:07:04,720

research and technology you've been able

2084

03:07:08,830 --> 03:07:05,920

to accomplish

2085

03:07:11,510 --> 03:07:08,840

and uh congratulate you on an amazing

2086

03:07:13,510 --> 03:07:11,520

expedition and we look forward to your

2087

03:07:14,950 --> 03:07:13,520

return next week

2088

03:07:18,790 --> 03:07:14,960

um

2089

03:07:19,670 --> 03:07:18,800

so again i'm just really excited for uh

2090

03:07:25,190 --> 03:07:19,680

for

2091

03:07:30,389 --> 03:07:25,200

that you all have and will be able to

2092

03:07:35,269 --> 03:07:32,550

thank you steve it is very exciting to

2093

03:07:37,190 --> 03:07:35,279

have crew 2 with us today and so i'm not

2094

03:07:38,630 --> 03:07:37,200

going to take up any time here i'm just

2095

03:07:40,469 --> 03:07:38,640

going to hand it over so we can get

2096

03:07:42,630 --> 03:07:40,479

their thoughts

2097

03:07:44,790 --> 03:07:42,640

thanks shannon thanks steve and um on

2098

03:07:47,269 --> 03:07:44,800

behalf of crew 2 we are just so excited

2099

03:07:48,950 --> 03:07:47,279

to be here i'm very excited to be here

2100

03:07:50,550 --> 03:07:48,960

in some ways it's been a long journey in

2101

03:07:52,870 --> 03:07:50,560

other ways it's been a pretty quick

2102

03:07:55,190 --> 03:07:52,880

one-year assignment flow so it's taken a

2103

03:07:57,110 --> 03:07:55,200

tremendous amount of work from a lot of

2104

03:07:58,870 --> 03:07:57,120

different teams to get us here we of

2105

03:08:00,870 --> 03:07:58,880

course have our excellent training team

2106

03:08:03,349 --> 03:08:00,880

at johnson space center also an

2107

03:08:05,030 --> 03:08:03,359

outstanding training team from hawthorne

2108

03:08:06,950 --> 03:08:05,040

and the entire iss program and

2109

03:08:09,030 --> 03:08:06,960

commercial crew program working together

2110

03:08:10,469 --> 03:08:09,040

to get us here of course as well as as

2111

03:08:12,630 --> 03:08:10,479

well as along with our international

2112

03:08:14,230 --> 03:08:12,640

partners we're just really excited to be

2113

03:08:17,110 --> 03:08:14,240

here and be part of this historic

2114

03:08:19,269 --> 03:08:17,120

mission with the two dragons on board

2115

03:08:21,030 --> 03:08:19,279

first reuse of a capsule first reuse of

2116

03:08:22,950 --> 03:08:21,040

a booster it's just a tremendous

2117

03:08:24,950 --> 03:08:22,960

achievement on behalf of our partner

2118

03:08:27,030 --> 03:08:24,960

spacex so i want to congratulate and

2119

03:08:28,469 --> 03:08:27,040

thank them and uh we're just we're so

2120

03:08:31,110 --> 03:08:28,479

excited to be here we're ready to get to

2121

03:08:33,110 --> 03:08:31,120

work there's a lot of great science um

2122

03:08:35,190 --> 03:08:33,120

that i know we're gonna be we're going

2123

03:08:53,429 --> 03:08:35,200

to be doing and we're just excited to

2124

03:08:57,670 --> 03:08:55,349

thank you mr jerzik

2125

03:09:00,550 --> 03:08:57,680

we now welcome associate administrator

2126
03:09:02,389 --> 03:09:00,560
kathy leaders to provide remarks miss

2127
03:09:04,550 --> 03:09:02,399
leaders please call us please call

2128
03:09:07,030 --> 03:09:04,560
station for a voice check

2129
03:09:09,269 --> 03:09:07,040
station hi this is kathy leaders

2130
03:09:10,870 --> 03:09:09,279
do you hear me

2131
03:09:13,990 --> 03:09:10,880
can you hear me

2132
03:09:16,389 --> 03:09:14,000
kathy we have you loud and clear

2133
03:09:18,230 --> 03:09:16,399
wow you know i just don't i think i

2134
03:09:20,950 --> 03:09:18,240
could see uh endeavor approaching

2135
03:09:23,269 --> 03:09:20,960
station maybe one more time you know

2136
03:09:25,590 --> 03:09:23,279
near and dear to my heart to see

2137
03:09:26,469 --> 03:09:25,600
that going on and uh

2138
03:09:29,510 --> 03:09:26,479

um

2139

03:09:32,870 --> 03:09:29,520

you know i think both steve and megan

2140

03:09:35,510 --> 03:09:32,880

mentioned how amazing it was to see uh

2141

03:09:37,590 --> 03:09:35,520

resilience there on the station the

2142

03:09:40,550 --> 03:09:37,600

folks crew on folks and the other parts

2143

03:09:42,630 --> 03:09:40,560

of the iss team mark and i you guys had

2144

03:09:44,630 --> 03:09:42,640

the best view but it was really cool

2145

03:09:47,670 --> 03:09:44,640

seeing it from here on earth

2146

03:09:50,309 --> 03:09:47,680

like steve talked about wow this is uh

2147

03:09:52,229 --> 03:09:50,319

and megan too this is we talk a lot

2148

03:09:53,590 --> 03:09:52,239

about this being an exploration being a

2149

03:09:55,990 --> 03:09:53,600

team sport

2150

03:09:59,030 --> 03:09:56,000

and this mission so far has really

2151

03:10:01,750 --> 03:09:59,040

exemplified that you know with this

2152

03:10:04,070 --> 03:10:01,760

our commercial partner spacex with our

2153

03:10:08,309 --> 03:10:04,080

international partners um

2154

03:10:11,110 --> 03:10:08,319

and uh with tomah and aki and obviously

2155

03:10:13,750 --> 03:10:11,120

uh megan you and shane you know holding

2156

03:10:16,309 --> 03:10:13,760

up on the the nasa side here and then

2157

03:10:18,389 --> 03:10:16,319

our commercial crew and iss teams

2158

03:10:21,190 --> 03:10:18,399

uh congratulations to all of you it's

2159

03:10:23,110 --> 03:10:21,200

just been an amazing amazing mission and

2160

03:10:25,190 --> 03:10:23,120

i know you guys are going to be doing

2161

03:10:26,950 --> 03:10:25,200

some really great things i've been here

2162

03:10:28,710 --> 03:10:26,960

watching your uh

2163

03:10:31,670 --> 03:10:28,720

the folks here on station waiting for

2164

03:10:35,110 --> 03:10:31,680

you and i know you guys will be having a

2165

03:10:37,590 --> 03:10:35,120

lot of fun together over this direct

2166

03:10:39,670 --> 03:10:37,600

handover period and with all of you on

2167

03:10:40,790 --> 03:10:39,680

board it's going to be a lot of fun for

2168

03:10:42,550 --> 03:10:40,800

you and

2169

03:10:44,070 --> 03:10:42,560

and getting ready for crew one to come

2170

03:10:46,309 --> 03:10:44,080

home so

2171

03:10:48,389 --> 03:10:46,319

i just wanted to really from the bottom

2172

03:10:51,269 --> 03:10:48,399

of my heart say thank you thanks to all

2173

03:10:53,990 --> 03:10:51,279

of you thanks for i'm to the whole team

2174

03:10:55,990 --> 03:10:54,000

the international the commercial you

2175

03:10:58,070 --> 03:10:56,000

folks there on the space station now

2176
03:11:00,309 --> 03:10:58,080
today safely

2177
03:11:02,229 --> 03:11:00,319
and looking forward to like steve said

2178
03:11:10,309 --> 03:11:02,239
seeing your accomplishments over the

2179
03:11:16,950 --> 03:11:11,830
thank you kathy really appreciate your

2180
03:11:22,630 --> 03:11:19,269
thank you miss leaders we now welcome

2181
03:11:24,630 --> 03:11:22,640
jaxa president dr yamakawa hiroshi dr

2182
03:11:27,510 --> 03:11:24,640
yamakawa please call station for a voice

2183
03:11:36,070 --> 03:11:30,150
station this is yamako hiroshi from

2184
03:11:36,080 --> 03:11:45,429
dr yamakawa we hear loud and clear

2185
03:11:48,389 --> 03:11:47,590
well thank you aki

2186
03:11:50,790 --> 03:11:48,399
well

2187
03:11:53,910 --> 03:11:50,800
congratulations to all

2188
03:11:56,389 --> 03:11:53,920

i watched uh yesterday's launch on tv

2189

03:11:59,110 --> 03:11:56,399

and really feel relieved by your safe

2190

03:12:01,349 --> 03:11:59,120

arrival to the station now

2191

03:12:03,670 --> 03:12:01,359

in this tough situation around the world

2192

03:12:06,229 --> 03:12:03,680

i believe you have brought courage and

2193

03:12:07,910 --> 03:12:06,239

hope for all of us

2194

03:12:09,590 --> 03:12:07,920

it is a great pleasure not only for me

2195

03:12:12,229 --> 03:12:09,600

but also for japan

2196

03:12:14,229 --> 03:12:12,239

that two japanese astronauts aki and

2197

03:12:17,349 --> 03:12:14,239

soichi have boarded the operational

2198

03:12:18,790 --> 03:12:17,359

spacecraft of the crew dragon twice in a

2199

03:12:21,269 --> 03:12:18,800

row

2200

03:12:23,830 --> 03:12:21,279

this represents the many years of close

2201

03:12:24,870 --> 03:12:23,840

cooperation between

2202

03:12:30,389 --> 03:12:24,880

on

2203

03:12:32,790 --> 03:12:30,399

i'm so happy to see both of you with big

2204

03:12:35,670 --> 03:12:32,800

smiles today

2205

03:12:38,710 --> 03:12:35,680

and i understand that aki advocates

2206

03:12:41,110 --> 03:12:38,720

teamwork for this long-term mission

2207

03:12:43,750 --> 03:12:41,120

which comes from your experience

2208

03:12:45,990 --> 03:12:43,760

in rugby football

2209

03:12:48,070 --> 03:12:46,000

the iss is a symbol of international

2210

03:12:49,990 --> 03:12:48,080

cooperation around the world

2211

03:12:51,510 --> 03:12:50,000

and we are looking forward to seeing you

2212

03:12:53,590 --> 03:12:51,520

work as a team

2213

03:12:55,190 --> 03:12:53,600

build a scrum with all of the crew

2214

03:12:58,550 --> 03:12:55,200

members from nasa

2215

03:13:01,190 --> 03:12:58,560

esa and russia on board and keep scoring

2216

03:13:03,429 --> 03:13:01,200

tries to maximize outcome during your

2217

03:13:05,830 --> 03:13:03,439

mission

2218

03:13:06,950 --> 03:13:05,840

soichi we wish you a safe return to the

2219

03:13:08,150 --> 03:13:06,960

earth

2220

03:13:11,590 --> 03:13:08,160

and aki

2221

03:13:16,790 --> 03:13:11,600

good luck and enjoy your stay in space

2222

03:13:27,670 --> 03:13:22,469

thank you very much

2223

03:13:29,429 --> 03:13:27,680

be part of this team uh we have a 11

2224

03:13:30,550 --> 03:13:29,439

person scrum

2225

03:13:34,070 --> 03:13:30,560

right here

2226

03:13:34,790 --> 03:13:34,080

and with four countries representing uh

2227

03:13:43,429 --> 03:13:34,800

and

2228

03:13:45,990 --> 03:13:43,439

thank you to all the uh

2229

03:13:48,790 --> 03:13:46,000

people that worked very very hard to

2230

03:13:51,990 --> 03:13:48,800

prepare us and the vehicle we got here

2231

03:13:53,590 --> 03:13:52,000

safely and now it's time to work

2232

03:13:56,229 --> 03:13:53,600

here on board the international space

2233

03:13:59,110 --> 03:13:56,239

station and we look forward to working

2234

03:14:06,309 --> 03:13:59,120

with everyone around the world

2235

03:14:11,030 --> 03:14:09,190

thank you dr yamakawa we now welcome

2236

03:14:13,990 --> 03:14:11,040

easter director general

2237

03:14:17,030 --> 03:14:14,000

joseph ashbacher dr ashwalker please

2238

03:14:20,150 --> 03:14:17,040

call station for a voice check

2239

03:14:23,990 --> 03:14:20,160

station uh this is joshua how do you

2240

03:14:28,710 --> 03:14:25,910

joseph we hear you loud and clear

2241

03:14:31,269 --> 03:14:28,720

welcome to the space station

2242

03:14:33,750 --> 03:14:31,279

thank you thomas this is uh really great

2243

03:14:35,830 --> 03:14:33,760

to see you that you and your roommates

2244

03:14:38,790 --> 03:14:35,840

uh have arrived safely on the space

2245

03:14:41,510 --> 03:14:38,800

station uh greetings to all of you 11 of

2246

03:14:44,229 --> 03:14:41,520

you at the station from all of us alisa

2247

03:14:46,389 --> 03:14:44,239

it is really a fantastic effort to see

2248

03:14:48,150 --> 03:14:46,399

all so nicely grouped together in the

2249

03:14:50,550 --> 03:14:48,160

group photo i think the station needs

2250

03:14:52,389 --> 03:14:50,560

expansion seeing what uh that you're all

2251

03:14:55,590 --> 03:14:52,399

calling together so nicely

2252

03:14:58,150 --> 03:14:55,600

uh alisa tomorrow we are all very very

2253

03:14:59,670 --> 03:14:58,160

proud of you and what you're doing for

2254

03:15:02,229 --> 03:14:59,680

space for

2255

03:15:04,550 --> 03:15:02,239

uh europe for the space agency also for

2256

03:15:05,990 --> 03:15:04,560

france you're extremely popular as you

2257

03:15:07,910 --> 03:15:06,000

know we're all very proud of you but of

2258

03:15:09,990 --> 03:15:07,920

course we're also very proud of all the

2259

03:15:12,630 --> 03:15:10,000

other colleagues which are next to you

2260

03:15:14,710 --> 03:15:12,640

because uh astronauts are so fascinating

2261

03:15:15,830 --> 03:15:14,720

and they give so much inspiration uh to

2262

03:15:18,389 --> 03:15:15,840

all of us

2263

03:15:20,630 --> 03:15:18,399

so this was the first launch of an elisa

2264

03:15:23,429 --> 03:15:20,640

astronaut on a crew dragon

2265

03:15:26,710 --> 03:15:23,439

it was spectacular and together with

2266

03:15:29,190 --> 03:15:26,720

philippa baptist the newly elected

2267

03:15:30,229 --> 03:15:29,200

knesset president we have followed very

2268

03:15:32,950 --> 03:15:30,239

closely

2269

03:15:35,349 --> 03:15:32,960

from the suits up all the way to the

2270

03:15:36,229 --> 03:15:35,359

orbital journey to the station and now

2271

03:15:39,910 --> 03:15:36,239

just

2272

03:15:42,389 --> 03:15:39,920

hatch opening and this was really so

2273

03:15:44,710 --> 03:15:42,399

exciting and uh really fantastic

2274

03:15:46,870 --> 03:15:44,720

it has been i think a long day for all

2275

03:15:48,630 --> 03:15:46,880

of you but you all look

2276

03:15:50,309 --> 03:15:48,640

extremely in good shape and in good

2277

03:15:52,550 --> 03:15:50,319

spirits you're all smiling this is

2278

03:15:53,590 --> 03:15:52,560

really fantastic to see down here from

2279

03:15:56,070 --> 03:15:53,600

from earth

2280

03:15:58,630 --> 03:15:56,080

but isa is really very happy to to see

2281

03:16:00,630 --> 03:15:58,640

your assignment uh tomorrow towards the

2282

03:16:02,630 --> 03:16:00,640

end of the the mission as the iss

2283

03:16:05,750 --> 03:16:02,640

commander and i really would like to to

2284

03:16:07,910 --> 03:16:05,760

take this uh opportunity to to thank the

2285

03:16:11,429 --> 03:16:07,920

partners of the space station for this

2286

03:16:12,229 --> 03:16:11,439

honor to give to tomah which certainly

2287

03:16:19,590 --> 03:16:12,239

is

2288

03:16:21,030 --> 03:16:19,600

but of course engineering technical

2289

03:16:23,990 --> 03:16:21,040

qualities to be the commander of the

2290

03:16:25,830 --> 03:16:24,000

station and also recognition for isa as

2291

03:16:27,910 --> 03:16:25,840

being a strong partner in support of the

2292

03:16:30,229 --> 03:16:27,920

space station all the way

2293

03:16:32,469 --> 03:16:30,239

so i know that you have a long and very

2294

03:16:34,870 --> 03:16:32,479

intense uh training period behind you

2295

03:16:37,429 --> 03:16:34,880

and you're all set to go there's a lot

2296

03:16:39,590 --> 03:16:37,439

ahead of you hundreds of experiments are

2297

03:16:41,510 --> 03:16:39,600

waiting and all of you will be kept

2298

03:16:43,910 --> 03:16:41,520

extremely busy but we all look forward

2299

03:16:45,990 --> 03:16:43,920

to see the results of this experiment so

2300

03:16:53,269 --> 03:16:46,000

thomas really very best wishes from all

2301

03:16:56,790 --> 03:16:55,110

hey thanks joseph it's really it's

2302

03:16:58,229 --> 03:16:56,800

really unbelievable to be here on space

2303

03:16:59,510 --> 03:16:58,239

station space station has changed quite

2304

03:17:01,590 --> 03:16:59,520

a bit since last time i was here i've

2305

03:17:02,790 --> 03:17:01,600

never seen so many astronauts on board

2306

03:17:04,309 --> 03:17:02,800

i've never seen so many different

2307

03:17:06,469 --> 03:17:04,319

spacecrafts on board and i think it's a

2308

03:17:09,429 --> 03:17:06,479

tribute to how strong the program is

2309

03:17:11,269 --> 03:17:09,439

going i want to echo what megan has

2310

03:17:12,950 --> 03:17:11,279

said he took a lot of effort from all

2311

03:17:14,870 --> 03:17:12,960

kinds of people you know from the

2312

03:17:16,630 --> 03:17:14,880

highest manager to uh all kinds of

2313

03:17:18,790 --> 03:17:16,640

support persons to bring us here so we

2314

03:17:19,910 --> 03:17:18,800

want to thank all of them

2315

03:17:21,590 --> 03:17:19,920

and i want to say a few words about

2316

03:17:22,710 --> 03:17:21,600

international cooperation you said a lot

2317

03:17:25,750 --> 03:17:22,720

but uh

2318

03:17:29,269 --> 03:17:25,760

it's been 20 years

2319

03:17:32,389 --> 03:17:29,279

learned it from shane 20 years since

2320

03:17:34,150 --> 03:17:32,399

jackson and isa and nasa and russian

2321

03:17:35,590 --> 03:17:34,160

astronaut have been together in space so

2322

03:17:37,910 --> 03:17:35,600

it's actually pretty historic what's

2323

03:17:39,590 --> 03:17:37,920

happening today uh we can't wait to

2324

03:17:41,510 --> 03:17:39,600

start our work on the space station we

2325

03:17:43,990 --> 03:17:41,520

can't wait to see what's ahead on the

2326

03:17:45,349 --> 03:17:44,000

adventure for us uh in those five months

2327

03:17:47,269 --> 03:17:45,359

we're so happy to see our friends we're

2328

03:17:48,790 --> 03:17:47,279

gonna have to to say goodbye to them

2329

03:17:50,309 --> 03:17:48,800

soon we wish we could keep them a little

2330

03:17:52,870 --> 03:17:50,319

bit longer but not too long as well

2331

03:17:55,670 --> 03:17:52,880

because 11 people is a lot on space

2332

03:17:57,670 --> 03:17:55,680

station um but yeah it's good to be here

2333

03:17:59,190 --> 03:17:57,680

really we're impatient and uh and it's

2334

03:18:18,790 --> 03:17:59,200

going to be unbelievable i want to say a

2335

03:18:18,800 --> 03:18:33,429

m

2336

03:18:37,750 --> 03:18:35,190

this is houston acr that concludes the

2337

03:18:39,990 --> 03:18:37,760

event thank you

2338

03:18:42,389 --> 03:18:40,000

thank you acting administrator jersek

2339

03:18:44,550 --> 03:18:42,399

associate administrator leaders dr

2340

03:18:46,469 --> 03:18:44,560

yamakawa and dr osh walker for your

2341

03:18:47,670 --> 03:18:46,479

participation in the crew 2 welcome

2342

03:18:49,670 --> 03:18:47,680

ceremony

2343

03:19:28,469 --> 03:18:49,680

station we are now resuming operational

2344

03:19:33,750 --> 03:19:31,429

wow what an incredible morning gary

2345

03:19:37,349 --> 03:19:33,760

is so cool to see

2346

03:19:39,590 --> 03:19:37,359

the crew 2 crew on board with the rest

2347

03:19:41,030 --> 03:19:39,600

of the astronauts on the international

2348

03:19:42,870 --> 03:19:41,040

space station

2349

03:19:45,429 --> 03:19:42,880

that's right they were welcomed by

2350

03:19:47,910 --> 03:19:45,439

leaders from each of the space agencies

2351

03:19:50,150 --> 03:19:47,920

that represent the cadre that is

2352

03:19:52,150 --> 03:19:50,160

the crew to astronauts aboard crew

2353

03:19:53,590 --> 03:19:52,160

dragon endeavor we first heard from

2354

03:19:56,150 --> 03:19:53,600

steve jerzik who's the acting

2355

03:19:58,070 --> 03:19:56,160

administrator of nasa based at nasa

2356

03:19:59,510 --> 03:19:58,080

headquarters we also then heard from

2357

03:20:01,349 --> 03:19:59,520

kathy leaders as the associate

2358

03:20:03,670 --> 03:20:01,359

administrator for human exploration and

2359

03:20:06,389 --> 03:20:03,680

operations mission directorate at nasa

2360

03:20:08,870 --> 03:20:06,399

headquarters then we got to hear from

2361

03:20:11,750 --> 03:20:08,880

the president of the japan aerospace

2362

03:20:13,590 --> 03:20:11,760

exploration agency hiroshi yamakawa and

2363

03:20:15,429 --> 03:20:13,600

joseph oshbacher wrapping up the

2364

03:20:17,910 --> 03:20:15,439

comments as the director general from

2365

03:20:20,309 --> 03:20:17,920

the european space agency uh each of

2366

03:20:22,150 --> 03:20:20,319

them chiming in and talking about uh

2367

03:20:24,469 --> 03:20:22,160

just what it took to get to this moment

2368

03:20:26,229 --> 03:20:24,479

with four astronauts on board four

2369

03:20:28,229 --> 03:20:26,239

additional astronauts on board i should

2370

03:20:30,150 --> 03:20:28,239

say an 11-person crew now makes up

2371

03:20:32,950 --> 03:20:30,160

expedition 65.

2372

03:20:36,309 --> 03:20:32,960

yeah it's been an incredible 24 plus

2373

03:20:39,429 --> 03:20:36,319

hours for this crew 2 mission this was a

2374

03:20:42,070 --> 03:20:39,439

nasa spacex crew 2 mission and we have

2375

03:20:43,590 --> 03:20:42,080

been with you all from the beginning

2376

03:20:45,349 --> 03:20:43,600

starting up with suit up of the

2377

03:20:46,950 --> 03:20:45,359

astronauts in the suit up room at the

2378

03:20:49,990 --> 03:20:46,960

onc building

2379

03:20:51,349 --> 03:20:50,000

following the crew on the nasa causeway

2380

03:20:54,229 --> 03:20:51,359

in their teslas

2381

03:20:56,389 --> 03:20:54,239

as they made their way to the launch pad

2382

03:20:59,429 --> 03:20:56,399

go up the service fixed service

2383

03:21:01,990 --> 03:20:59,439

structure and ingressed on crew dragon

2384

03:21:04,950 --> 03:21:02,000

endeavor we had an on-time liftoff

2385

03:21:07,670 --> 03:21:04,960

yesterday morning at 5 49 a.m eastern

2386

03:21:10,070 --> 03:21:07,680

time with the first stage separating and

2387

03:21:12,469 --> 03:21:10,080

coming back to earth for its second

2388

03:21:13,990 --> 03:21:12,479

flight and second landing on of course i

2389

03:21:16,950 --> 03:21:14,000

still love you

2390

03:21:20,469 --> 03:21:16,960

while dragon separated from second stage

2391

03:21:24,389 --> 03:21:20,479

had a good nose cone deploy we had five

2392

03:21:26,950 --> 03:21:24,399

major burns on dragon as it made its way

2393

03:21:29,590 --> 03:21:26,960

to the international space station and

2394

03:21:32,070 --> 03:21:29,600

finally docking and

2395

03:21:35,269 --> 03:21:32,080

docking to the space station

2396

03:21:37,830 --> 03:21:35,279

where we just just a few moments ago

2397

03:21:40,309 --> 03:21:37,840

watched the crew ingress onto the

2398

03:21:41,910 --> 03:21:40,319

international space station so an

2399

03:21:43,429 --> 03:21:41,920

incredible

2400

03:21:45,429 --> 03:21:43,439

past day

2401

03:21:48,150 --> 03:21:45,439

watching this mission

2402

03:21:50,070 --> 03:21:48,160

on behalf of spacex and nasa thank you

2403

03:21:52,389 --> 03:21:50,080

for watching today's webcast and for

2404

03:21:55,030 --> 03:21:52,399

your interest in this exciting second

2405

03:21:56,870 --> 03:21:55,040

rotational crew mission now that dragon

2406

03:21:58,389 --> 03:21:56,880

endeavor has reached the international

2407

03:22:00,790 --> 03:21:58,399

space station it will spend

2408

03:22:03,269 --> 03:22:00,800

approximately six months docked there

2409

03:22:05,750 --> 03:22:03,279

until it's time for crew 2 to return

2410

03:22:07,990 --> 03:22:05,760

home via a splashdown in the atlantic

2411

03:22:09,750 --> 03:22:08,000

ocean and now that crew 2 has arrived

2412

03:22:12,150 --> 03:22:09,760

we're less than a week away from the

2413

03:22:14,550 --> 03:22:12,160

return of crew one we'll be taking you

2414

03:22:16,790 --> 03:22:14,560

along as mike hopkins victor glover

2415

03:22:18,550 --> 03:22:16,800

shannon walker and suicinaguchi return

2416

03:22:20,309 --> 03:22:18,560

home after their long duration stay

2417

03:22:22,469 --> 03:22:20,319

aboard the station they're currently

2418

03:22:25,269 --> 03:22:22,479

targeted to return on wednesday april

2419

03:22:27,110 --> 03:22:25,279

28th so be sure to tune in as nasa and

2420

03:22:29,269 --> 03:22:27,120

spacex bring you live coverage of every

2421

03:22:30,630 --> 03:22:29,279

step of their journey be sure to follow

2422

03:22:32,710 --> 03:22:30,640

nasa and

2423

03:22:34,710 --> 03:22:32,720

spacex on social media for real-time

2424

03:22:37,269 --> 03:22:34,720

updates and thanks again for watching

2425

03:22:54,590 --> 03:22:37,279

our coverage go nasa go spacex and go

