
LAUNCH
AMERICA

1
00:00:03,090 --> 00:00:07,909
[Music]

2
00:00:07,919 --> 00:00:16,390
between countries

3
00:00:29,429 --> 00:00:19,349
discovery clears the tower

4
00:00:29,439 --> 00:00:31,480
in my rogers

5
00:00:45,590 --> 00:00:43,990
[Music]

6
00:00:48,150 --> 00:00:45,600
well good morning and welcome to the

7
00:00:51,110 --> 00:00:48,160
kennedy space center it's another great

8
00:00:53,189 --> 00:00:51,120
day at america's premier multi-user

9
00:00:55,350 --> 00:00:53,199
spaceport as we get ready to make

10
00:00:57,590 --> 00:00:55,360
history once again

11
00:01:00,310 --> 00:00:57,600
with the successful test flight of the

12
00:01:03,110 --> 00:01:00,320
crew dragon on the falcon 9 that safely

13
00:01:04,869 --> 00:01:03,120

delivered bob benkin and doug hurley to

14
00:01:06,710 --> 00:01:04,879
the international space station and

15
00:01:08,870 --> 00:01:06,720
brought him home safely

16
00:01:11,109 --> 00:01:08,880
it set the stage for the crew one

17
00:01:13,750 --> 00:01:11,119
mission tomorrow afternoon

18
00:01:16,230 --> 00:01:13,760
this is the first flight under contract

19
00:01:19,190 --> 00:01:16,240
the crew rotation mission with spacex to

20
00:01:21,749 --> 00:01:19,200
the international space station

21
00:01:24,310 --> 00:01:21,759
this is truly a new era of human space

22
00:01:27,109 --> 00:01:24,320
flight and i couldn't be more pleased

23
00:01:30,870 --> 00:01:27,119
with what the nasa and spacex team has

24
00:01:33,670 --> 00:01:30,880
accomplished it's truly an exciting time

25
00:01:36,149 --> 00:01:33,680
it's great that we're flying crews on a

26
00:01:38,950 --> 00:01:36,159
regular cadence once again from here at

27
00:01:41,429 --> 00:01:38,960
the kennedy space center to space on u.s

28
00:01:43,670 --> 00:01:41,439
rockets it's also great that we're doing

29
00:01:47,109 --> 00:01:43,680
it with our international partners and

30
00:01:48,950 --> 00:01:47,119
we've got suicide from japan on board i

31
00:01:51,190 --> 00:01:48,960
couldn't be more pleased with what this

32
00:01:53,910 --> 00:01:51,200
team has accomplished and i'm truly

33
00:01:55,670 --> 00:01:53,920
proud and humbled to be a part of it

34
00:01:58,550 --> 00:01:55,680
it's my pleasure now

35
00:02:01,109 --> 00:01:58,560
to introduce our nasa administrator jim

36
00:02:04,109 --> 00:02:01,119
bridenstine through his outstanding

37
00:02:06,789 --> 00:02:04,119
leadership and advocacy for the

38
00:02:08,389 --> 00:02:06,799

commercialization of low earth orbit the

39
00:02:09,990 --> 00:02:08,399
commercial crew program

40
00:02:12,949 --> 00:02:10,000
and the transformation of the kennedy

41
00:02:14,869 --> 00:02:12,959
space center to a multi-user spaceport

42
00:02:17,270 --> 00:02:14,879
have become reality

43
00:02:18,229 --> 00:02:17,280
please welcome a great american to the

44
00:02:22,990 --> 00:02:18,239
stand

45
00:02:27,350 --> 00:02:25,510
[Applause]

46
00:02:28,630 --> 00:02:27,360
well thank you bob for that introduction

47
00:02:30,309 --> 00:02:28,640
and thank you for your amazing

48
00:02:32,309 --> 00:02:30,319
leadership here at the kennedy space

49
00:02:35,589 --> 00:02:32,319
center which has become now

50
00:02:37,350 --> 00:02:35,599
a truly multi-user spaceport and we're

51
00:02:39,270 --> 00:02:37,360
looking forward to so many great things

52
00:02:41,830 --> 00:02:39,280
happening right here at kennedy in the

53
00:02:43,350 --> 00:02:41,840
years ahead but yes this is a another

54
00:02:44,869 --> 00:02:43,360
historic moment

55
00:02:46,710 --> 00:02:44,879
it seems like every time i come to

56
00:02:48,710 --> 00:02:46,720
kennedy where we're making history and

57
00:02:50,390 --> 00:02:48,720
this is no different

58
00:02:52,710 --> 00:02:50,400
the history being made this time is

59
00:02:54,630 --> 00:02:52,720
we're launching uh what we call an

60
00:02:57,030 --> 00:02:54,640
operational flight to the international

61
00:02:59,350 --> 00:02:57,040
space station make no mistake uh

62
00:03:01,350 --> 00:02:59,360
vigilance is always required on every

63
00:03:04,550 --> 00:03:01,360

flight but as bob said this is under

64
00:03:06,710 --> 00:03:04,560
contract and another first

65
00:03:08,790 --> 00:03:06,720
for nasa is that this

66
00:03:11,110 --> 00:03:08,800
flight is certified

67
00:03:12,790 --> 00:03:11,120
by the faa the federal aviation

68
00:03:14,790 --> 00:03:12,800
administration we have steve dixon here

69
00:03:17,110 --> 00:03:14,800
and i'll be introducing him here in a

70
00:03:19,990 --> 00:03:17,120
few minutes uh the administrator of the

71
00:03:22,229 --> 00:03:20,000
faa but the whole goal here is to

72
00:03:24,630 --> 00:03:22,239
commercialize our activities in low

73
00:03:27,270 --> 00:03:24,640
earth orbit nasa wants to be one

74
00:03:29,990 --> 00:03:27,280
customer of many customers in a very

75
00:03:32,309 --> 00:03:30,000
robust commercial marketplace for human

76
00:03:33,670 --> 00:03:32,319
space flight and low earth orbit but we

77
00:03:35,509 --> 00:03:33,680
don't just want to be one of many

78
00:03:37,910 --> 00:03:35,519
customers we also want to have numerous

79
00:03:41,190 --> 00:03:37,920
providers that are competing against

80
00:03:43,990 --> 00:03:41,200
each other on cost on innovation and on

81
00:03:46,630 --> 00:03:44,000
safety ultimately bringing more access

82
00:03:48,229 --> 00:03:46,640
to space than ever before we of course

83
00:03:50,550 --> 00:03:48,239
have had success with commercial

84
00:03:52,949 --> 00:03:50,560
resupply of the international space

85
00:03:55,429 --> 00:03:52,959
station where we're buying services to

86
00:03:57,589 --> 00:03:55,439
get our equipment and hardware and

87
00:03:59,110 --> 00:03:57,599
experiments to the iss

88
00:04:00,710 --> 00:03:59,120

now we are having success with

89
00:04:02,390 --> 00:04:00,720
commercial crew

90
00:04:05,350 --> 00:04:02,400
and of course tomorrow's flight is the

91
00:04:07,190 --> 00:04:05,360
next major milestone in this development

92
00:04:09,670 --> 00:04:07,200
and of course the next big phase is

93
00:04:11,990 --> 00:04:09,680
commercial space stations themselves

94
00:04:13,830 --> 00:04:12,000
where we have private capital and nasa

95
00:04:16,150 --> 00:04:13,840
as a customer as well

96
00:04:18,949 --> 00:04:16,160
ultimately capitalizing funding and

97
00:04:20,310 --> 00:04:18,959
moving forward for this new era in human

98
00:04:22,469 --> 00:04:20,320
space flight

99
00:04:24,230 --> 00:04:22,479
where again nasa is just one of many

100
00:04:26,230 --> 00:04:24,240
customers and numerous providers are

101
00:04:28,150 --> 00:04:26,240
competing on cost and innovation the

102
00:04:29,749 --> 00:04:28,160
ultimate goal is to have more resources

103
00:04:31,909 --> 00:04:29,759
to do things for which there is not yet

104
00:04:34,070 --> 00:04:31,919
a commercial marketplace like go to the

105
00:04:36,790 --> 00:04:34,080
moon and on to mars under the artemis

106
00:04:38,790 --> 00:04:36,800
program and the moon to mars program

107
00:04:41,110 --> 00:04:38,800
that's ultimately what we're trying to

108
00:04:42,469 --> 00:04:41,120
achieve here um and because of what's

109
00:04:43,830 --> 00:04:42,479
happening today

110
00:04:45,830 --> 00:04:43,840
all of these things are going to be

111
00:04:48,230 --> 00:04:45,840
possible in the future

112
00:04:51,590 --> 00:04:48,240
so this is a a very exciting time for

113
00:04:55,189 --> 00:04:51,600

nasa um and and these are again uh

114
00:04:56,710 --> 00:04:55,199
historic firsts so today's or tomorrow's

115
00:04:59,270 --> 00:04:56,720
launch is licensed by the federal

116
00:05:00,950 --> 00:04:59,280
aviation administration steve dixon has

117
00:05:04,070 --> 00:05:00,960
become a good friend of mine he is the

118
00:05:06,310 --> 00:05:04,080
administrator of the faa and of course

119
00:05:09,110 --> 00:05:06,320
he's a graduate of of the air force

120
00:05:11,189 --> 00:05:09,120
academy an f-15 pilot by trade who went

121
00:05:13,430 --> 00:05:11,199
to work for delta flew the line at delta

122
00:05:15,430 --> 00:05:13,440
for nine years by the way he got a law

123
00:05:16,629 --> 00:05:15,440
degree in the midst of all this

124
00:05:18,950 --> 00:05:16,639
and then of course he went into

125
00:05:21,029 --> 00:05:18,960
management at delta as the senior vice

126
00:05:23,350 --> 00:05:21,039
president of flight operations

127
00:05:25,189 --> 00:05:23,360
before taking the helm of the federal

128
00:05:28,600 --> 00:05:25,199
aviation administration so please

129
00:05:32,629 --> 00:05:28,610
welcome steve dixon to the microphone

130
00:05:34,870 --> 00:05:32,639
[Applause]

131
00:05:37,189 --> 00:05:34,880
thanks jim and it's really a pleasure

132
00:05:39,430 --> 00:05:37,199
appreciate your hospitality today at the

133
00:05:42,550 --> 00:05:39,440
kennedy space center along with bob it's

134
00:05:46,710 --> 00:05:42,560
an honor to uh for the fa to partner

135
00:05:49,270 --> 00:05:46,720
with nasa and spacex um on the uh first

136
00:05:51,110 --> 00:05:49,280
operational uh crew dragon launch

137
00:05:54,390 --> 00:05:51,120
you know this is what happens when you

138
00:05:55,830 --> 00:05:54,400

add a drop or two of rocket fuel to

139
00:05:58,150 --> 00:05:55,840
ingenuity

140
00:06:00,790 --> 00:05:58,160
there's tremendous opportunity we've all

141
00:06:04,550 --> 00:06:00,800
dedicated countless hours to making sure

142
00:06:07,510 --> 00:06:04,560
this launch is both safe and successful

143
00:06:09,830 --> 00:06:07,520
the fa's job in this mission and in

144
00:06:11,909 --> 00:06:09,840
commercial space generally is to protect

145
00:06:14,469 --> 00:06:11,919
public safety property and national

146
00:06:15,909 --> 00:06:14,479
security and we have the right skills

147
00:06:16,790 --> 00:06:15,919
and the right workforce and the right

148
00:06:18,150 --> 00:06:16,800
team

149
00:06:20,629 --> 00:06:18,160
to get this done we've actually been

150
00:06:21,990 --> 00:06:20,639
doing it for many years but this is our

151
00:06:23,270 --> 00:06:22,000
first manned

152
00:06:25,270 --> 00:06:23,280
or orbital

153
00:06:27,110 --> 00:06:25,280
space flight so we're really excited and

154
00:06:28,950 --> 00:06:27,120
really privileged to be able to

155
00:06:31,670 --> 00:06:28,960
participate here today

156
00:06:34,390 --> 00:06:31,680
in calendar year 2020 the fa has

157
00:06:37,909 --> 00:06:34,400
licensed 31 space operations this

158
00:06:41,830 --> 00:06:37,919
thus far in fact we set a record in the

159
00:06:42,790 --> 00:06:41,840
month of october with six in one month

160
00:06:45,350 --> 00:06:42,800
and

161
00:06:48,550 --> 00:06:45,360
we expect to license 56 more space

162
00:06:51,830 --> 00:06:48,560
operations so just about one a week in

163
00:06:53,990 --> 00:06:51,840

2021 so really an exciting time in

164
00:06:56,150 --> 00:06:54,000
aerospace in the united states

165
00:06:57,990 --> 00:06:56,160
in and of themselves these numbers are

166
00:07:00,150 --> 00:06:58,000
very impressive

167
00:07:02,790 --> 00:07:00,160
but they really are just the tip of the

168
00:07:04,870 --> 00:07:02,800
iceberg about what's to come once space

169
00:07:05,909 --> 00:07:04,880
tourism turns the corner we think we'll

170
00:07:08,870 --> 00:07:05,919
see

171
00:07:11,830 --> 00:07:08,880
likely topping 100 operations a year

172
00:07:13,430 --> 00:07:11,840
so uh we are we are prepared for that

173
00:07:16,469 --> 00:07:13,440
these operations are going to be a huge

174
00:07:19,430 --> 00:07:16,479
part of the new space economy which some

175
00:07:22,550 --> 00:07:19,440
estimate estimates uh say could be worth

176
00:07:24,150 --> 00:07:22,560
a trillion dollars by the year 2040.

177
00:07:26,070 --> 00:07:24,160
and it's my job

178
00:07:28,550 --> 00:07:26,080
uh under the leadership of uh

179
00:07:30,390 --> 00:07:28,560
transportation secretary elaine chao

180
00:07:33,830 --> 00:07:30,400
to make sure

181
00:07:36,870 --> 00:07:33,840
that the u.s is a doorway not a barrier

182
00:07:39,029 --> 00:07:36,880
uh to the to this innovation

183
00:07:40,390 --> 00:07:39,039
we recently finalized the streamline

184
00:07:41,830 --> 00:07:40,400
launch and recovery licensing

185
00:07:44,390 --> 00:07:41,840
requirements rule

186
00:07:46,869 --> 00:07:44,400
the new rule will allow space launch

187
00:07:48,550 --> 00:07:46,879
operators to use a single license

188
00:07:51,270 --> 00:07:48,560

for multiple launches from multiple

189
00:07:53,510 --> 00:07:51,280
launch sites it strips out very

190
00:07:54,710 --> 00:07:53,520
prescriptive requirements and injects

191
00:07:56,790 --> 00:07:54,720
flexible

192
00:07:58,950 --> 00:07:56,800
performance-based criteria

193
00:08:00,790 --> 00:07:58,960
we told this industry we'd be right out

194
00:08:03,589 --> 00:08:00,800
there on the launch pad with them and

195
00:08:06,070 --> 00:08:03,599
we've kept that promise here today

196
00:08:07,589 --> 00:08:06,080
as we've cut red tape we're also helping

197
00:08:09,909 --> 00:08:07,599
to establish our nation's space

198
00:08:12,309 --> 00:08:09,919
transportation infrastructure to date

199
00:08:14,309 --> 00:08:12,319
we've licensed 12 spaceports with

200
00:08:17,589 --> 00:08:14,319
several potential sites in the

201
00:08:19,430 --> 00:08:17,599
pre-application phase for consideration

202
00:08:21,749 --> 00:08:19,440
and we've established an fa office of

203
00:08:24,230 --> 00:08:21,759
spaceports that will help us determine

204
00:08:27,110 --> 00:08:24,240
what services rules and regulation will

205
00:08:28,869 --> 00:08:27,120
be needed to support space ports

206
00:08:30,469 --> 00:08:28,879
and along with this a whole suite of

207
00:08:33,110 --> 00:08:30,479
game-changing technologies and

208
00:08:35,509 --> 00:08:33,120
procedures to safely integrate space

209
00:08:38,469 --> 00:08:35,519
operations into the national aerospace

210
00:08:41,430 --> 00:08:38,479
system by the start of next year

211
00:08:43,990 --> 00:08:41,440
we plan to deploy a prototype of the

212
00:08:46,470 --> 00:08:44,000
space data integrator or sdi as we call

213
00:08:49,110 --> 00:08:46,480

it that will feel uh

214
00:08:52,310 --> 00:08:49,120
feed real-time telemetry data from the

215
00:08:54,550 --> 00:08:52,320
space vehicle into the faa's traffic

216
00:08:56,470 --> 00:08:54,560
flow management system so that we can

217
00:08:58,630 --> 00:08:56,480
manage air traffic much more surgically

218
00:09:00,710 --> 00:08:58,640
than we've been able to do historically

219
00:09:03,269 --> 00:09:00,720
with sdi we'll be able to block off less

220
00:09:05,829 --> 00:09:03,279
air space for a space operation

221
00:09:07,990 --> 00:09:05,839
and release that airspace more quickly

222
00:09:08,949 --> 00:09:08,000
so it's available for other airspace

223
00:09:11,430 --> 00:09:08,959
users

224
00:09:13,829 --> 00:09:11,440
and to complement sdi we're already

225
00:09:15,670 --> 00:09:13,839
using time-based air traffic procedures

226
00:09:18,070 --> 00:09:15,680
to help us better manage the flow of

227
00:09:19,430 --> 00:09:18,080
aircraft around a space launch or

228
00:09:21,590 --> 00:09:19,440
re-entry

229
00:09:24,710 --> 00:09:21,600
this is also i think an inspiring time

230
00:09:26,870 --> 00:09:24,720
for for young people as well we want

231
00:09:29,269 --> 00:09:26,880
young people to know

232
00:09:31,190 --> 00:09:29,279
what the opportunities are in aerospace

233
00:09:33,190 --> 00:09:31,200
and space in particular

234
00:09:34,949 --> 00:09:33,200
that can come from a career and we're

235
00:09:37,030 --> 00:09:34,959
working to reach kids of all ages as a

236
00:09:38,550 --> 00:09:37,040
matter of fact i'm going to be watching

237
00:09:41,190 --> 00:09:38,560
tomorrow's launch

238
00:09:43,350 --> 00:09:41,200

with a group of kids from tulsa oklahoma

239
00:09:45,590 --> 00:09:43,360
who really have the dream of going to

240
00:09:48,630 --> 00:09:45,600
space that's within their reach in ways

241
00:09:50,790 --> 00:09:48,640
that it never was for my generation

242
00:09:53,190 --> 00:09:50,800
so i'll just leave you with this um

243
00:09:55,110 --> 00:09:53,200
tomorrow's crew dragon launch is a great

244
00:09:57,990 --> 00:09:55,120
example of american ingenuity but it's

245
00:10:00,150 --> 00:09:58,000
also a tremendous example of uh global

246
00:10:02,389 --> 00:10:00,160
leadership and partnership but there are

247
00:10:04,389 --> 00:10:02,399
even bigger and better days to come

248
00:10:06,550 --> 00:10:04,399
america is watching in the entire world

249
00:10:08,790 --> 00:10:06,560
is too they want to see this industry

250
00:10:10,790 --> 00:10:08,800
continue to do great things

251
00:10:13,110 --> 00:10:10,800
and from what i've seen this industry is

252
00:10:15,670 --> 00:10:13,120
stepping up to the task and to that

253
00:10:19,269 --> 00:10:15,680
point uh it's my privilege now to

254
00:10:27,110 --> 00:10:19,279
introduce hiroshi sasaki sasaki-san who

255
00:10:30,949 --> 00:10:29,269
thank you thanks steve for introducing

256
00:10:32,550 --> 00:10:30,959
me

257
00:10:33,990 --> 00:10:32,560
i'm here saturday vice president of

258
00:10:36,790 --> 00:10:34,000
jackson

259
00:10:41,030 --> 00:10:36,800
on behalf of all jaxa

260
00:10:44,389 --> 00:10:41,040
i'd like to express the appreciation

261
00:10:47,750 --> 00:10:44,399
to the nasa and specific staff

262
00:10:51,190 --> 00:10:47,760
for the crew one launch operations

263
00:10:52,310 --> 00:10:51,200

uh it is a great pleasure for me

264
00:10:53,829 --> 00:10:52,320
for

265
00:10:57,030 --> 00:10:53,839
the

266
00:10:59,509 --> 00:10:57,040
this uh exciting missions

267
00:11:01,829 --> 00:10:59,519
and then so much knowledge that japanese

268
00:11:03,910 --> 00:11:01,839
astronaut is well

269
00:11:06,150 --> 00:11:03,920
prepared for the launch

270
00:11:10,069 --> 00:11:06,160
and the japanese

271
00:11:11,590 --> 00:11:10,079
experimental module cable of iss is also

272
00:11:16,150 --> 00:11:11,600
uh ready

273
00:11:21,110 --> 00:11:18,949
this mission is simple i think that this

274
00:11:23,750 --> 00:11:21,120
mission is symbol of the

275
00:11:27,670 --> 00:11:23,760
japan the u.s partnership

276
00:11:30,470 --> 00:11:27,680
and we want to go for uh together to the

277
00:11:33,269 --> 00:11:30,480
iss and um

278
00:11:36,150 --> 00:11:33,279
i'm looking forward to the

279
00:11:38,949 --> 00:11:36,160
launch tomorrow and i wish you a

280
00:11:41,190 --> 00:11:38,959
successful launch thank you thank you

281
00:11:43,030 --> 00:11:41,200
and i'd like to introduce sanita

282
00:11:46,150 --> 00:11:43,040
williams

283
00:11:50,470 --> 00:11:46,160
nasa astronaut and very famous even in

284
00:11:54,870 --> 00:11:52,389
thank you sasaki-san it's so great to be

285
00:11:57,829 --> 00:11:54,880
here in florida i'm so excited to see

286
00:12:00,389 --> 00:11:57,839
our friends launch tomorrow mike victor

287
00:12:01,590 --> 00:12:00,399
shannon and suici it's just going to be

288
00:12:03,910 --> 00:12:01,600

awesome to see them get to the

289
00:12:06,310 --> 00:12:03,920
international space station and be up

290
00:12:07,750 --> 00:12:06,320
there working for the next six months

291
00:12:09,670 --> 00:12:07,760
you know the commercial crew program

292
00:12:11,350 --> 00:12:09,680
with boeing and spacex has just been

293
00:12:16,710 --> 00:12:11,360
spectacular

294
00:12:18,310 --> 00:12:16,720
from both companies has been amazing um

295
00:12:20,710 --> 00:12:18,320
i'm specifically looking forward to

296
00:12:21,990 --> 00:12:20,720
seeing them live up there because our

297
00:12:23,509 --> 00:12:22,000
crew my crew is going to be the

298
00:12:25,829 --> 00:12:23,519
complimentary crew on this boeing

299
00:12:28,470 --> 00:12:25,839
starliner probably at the end of next

300
00:12:31,190 --> 00:12:28,480
year so um this is an exciting time for

301
00:12:33,750 --> 00:12:31,200
all of us watching them pave the way so

302
00:12:35,110 --> 00:12:33,760
that uh we we can do low earth orbit

303
00:12:37,590 --> 00:12:35,120
with commercial crew and then we can

304
00:12:39,670 --> 00:12:37,600
move on to the next big steps

305
00:12:41,750 --> 00:12:39,680
with that i was i'm going to introduce

306
00:12:44,230 --> 00:12:41,760
one of the newest astronauts in the

307
00:12:45,910 --> 00:12:44,240
newest class of astronauts johnny kim

308
00:12:53,110 --> 00:12:45,920
who is going to be leading that

309
00:12:57,670 --> 00:12:55,430
hi good morning um my name is johnny kim

310
00:12:59,030 --> 00:12:57,680
and i'm honored and privileged to be

311
00:13:00,710 --> 00:12:59,040
here

312
00:13:02,470 --> 00:13:00,720
it's crazy to be uh thinking about what

313
00:13:05,430 --> 00:13:02,480

we're going to be doing tomorrow

314
00:13:07,430 --> 00:13:05,440
it's hard to imagine how far we've come

315
00:13:08,870 --> 00:13:07,440
the first certified flight of a

316
00:13:11,269 --> 00:13:08,880
commercial vehicle

317
00:13:13,590 --> 00:13:11,279
launching three american astronauts and

318
00:13:15,350 --> 00:13:13,600
an international partner to the space

319
00:13:16,710 --> 00:13:15,360
station

320
00:13:17,910 --> 00:13:16,720
we're here

321
00:13:20,629 --> 00:13:17,920
because of the

322
00:13:21,590 --> 00:13:20,639
thousands of people who work behind the

323
00:13:23,030 --> 00:13:21,600
scenes

324
00:13:23,990 --> 00:13:23,040
we truly stand on the shoulders of

325
00:13:24,790 --> 00:13:24,000
giants

326
00:13:28,230 --> 00:13:24,800
from

327
00:13:31,509 --> 00:13:28,240
former astronauts to our administrator

328
00:13:33,030 --> 00:13:31,519
and our international partners

329
00:13:35,829 --> 00:13:33,040
we wouldn't be here

330
00:13:37,829 --> 00:13:35,839
if it wasn't for everyone

331
00:13:40,710 --> 00:13:37,839
you've heard of all the benefits that

332
00:13:43,750 --> 00:13:40,720
commercial crew program is bringing to

333
00:13:45,829 --> 00:13:43,760
the american people to humanity

334
00:13:47,030 --> 00:13:45,839
what i'm most excited about is being

335
00:13:48,550 --> 00:13:47,040
able to see

336
00:13:51,509 --> 00:13:48,560
four of my friends

337
00:13:52,790 --> 00:13:51,519
launch on that rocket tomorrow

338
00:13:53,910 --> 00:13:52,800

they're brothers

339
00:13:54,949 --> 00:13:53,920
sisters

340
00:13:56,069 --> 00:13:54,959
parents

341
00:13:57,670 --> 00:13:56,079
children

342
00:13:59,509 --> 00:13:57,680
but they're all humans

343
00:14:01,189 --> 00:13:59,519
and they represent us and everything

344
00:14:03,430 --> 00:14:01,199
that we stand for

345
00:14:05,590 --> 00:14:03,440
for humanity

346
00:14:07,910 --> 00:14:05,600
and the success the successes of the

347
00:14:10,470 --> 00:14:07,920
commercial crew program

348
00:14:13,509 --> 00:14:10,480
and the iss which has been habited for

349
00:14:15,189 --> 00:14:13,519
20 years has set the stage for future

350
00:14:17,110 --> 00:14:15,199
space exploration

351
00:14:19,590 --> 00:14:17,120
as we go deeper into space as we return

352
00:14:22,310 --> 00:14:19,600
to the moon and beyond

353
00:14:24,470 --> 00:14:22,320
so i am greatly privileged and honored

354
00:14:26,120 --> 00:14:24,480
to be here and looking forward to

355
00:14:31,430 --> 00:14:26,130
tomorrow

356
00:14:33,269 --> 00:14:31,440
[Applause]

357
00:14:34,870 --> 00:14:33,279
well now

358
00:14:36,870 --> 00:14:34,880
thank you we'll start taking questions

359
00:14:39,110 --> 00:14:36,880
from reporters please one question for

360
00:14:41,350 --> 00:14:39,120
reporter and we're our focus is on crew

361
00:14:43,350 --> 00:14:41,360
one any question other than crew one

362
00:14:46,949 --> 00:14:43,360
we'll happy to take it after this press

363
00:14:49,110 --> 00:14:46,959

conference our first question

364
00:14:50,949 --> 00:14:49,120
uh hello marcia dunn associated press

365
00:14:51,750 --> 00:14:50,959
from mr breinstein

366
00:14:53,590 --> 00:14:51,760
um

367
00:14:55,269 --> 00:14:53,600
elon musk has been tweeting this morning

368
00:14:57,269 --> 00:14:55,279
that he's not feeling so good and some

369
00:14:58,710 --> 00:14:57,279
of his kova tests have come positive

370
00:14:59,990 --> 00:14:58,720
some are negative

371
00:15:02,230 --> 00:15:00,000
what do you what's he telling you

372
00:15:03,990 --> 00:15:02,240
personally and are you going to allow

373
00:15:06,310 --> 00:15:04,000
him to be in launch control or crew

374
00:15:09,269 --> 00:15:06,320
quarters even if his next test comes

375
00:15:12,629 --> 00:15:09,279
back positive i mean negative sure for

376
00:15:15,670 --> 00:15:12,639
sure so i i talked to elon two days ago

377
00:15:16,629 --> 00:15:15,680
uh before this uh before this news came

378
00:15:19,030 --> 00:15:16,639
to be

379
00:15:21,430 --> 00:15:19,040
um i'll tell you uh when somebody tests

380
00:15:23,990 --> 00:15:21,440
positive for covid here at the kennedy

381
00:15:26,870 --> 00:15:24,000
space center and across nasa um it is

382
00:15:28,550 --> 00:15:26,880
our policy for that person to quarantine

383
00:15:30,389 --> 00:15:28,560
and self-isolate

384
00:15:32,389 --> 00:15:30,399
so we anticipate that that will be

385
00:15:35,269 --> 00:15:32,399
taking place

386
00:15:37,590 --> 00:15:35,279
and you know we're looking to spacex to

387
00:15:39,269 --> 00:15:37,600
do any contract contact tracing that is

388
00:15:41,110 --> 00:15:39,279

appropriate

389
00:15:42,870 --> 00:15:41,120
and then of course if if there are

390
00:15:45,030 --> 00:15:42,880
changes that need to be made

391
00:15:47,030 --> 00:15:45,040
we will we will look at those

392
00:15:49,430 --> 00:15:47,040
but it's very early right now to to know

393
00:15:50,629 --> 00:15:49,440
if any changes are necessary at this

394
00:15:55,670 --> 00:15:50,639
point

395
00:15:59,110 --> 00:15:57,590
hi lauren gresh with the verge my

396
00:16:01,990 --> 00:15:59,120
questions for jim

397
00:16:03,590 --> 00:16:02,000
um crew one comes at a very transitional

398
00:16:05,749 --> 00:16:03,600
time for our country

399
00:16:07,910 --> 00:16:05,759
and as we prepare for a new

400
00:16:09,990 --> 00:16:07,920
administration i'm curious what are your

401
00:16:12,230 --> 00:16:10,000
hopes for the commercial crew program

402
00:16:13,910 --> 00:16:12,240
the future of human space flight at nasa

403
00:16:16,550 --> 00:16:13,920
and how do you plan to work with any

404
00:16:18,389 --> 00:16:16,560
successors that that to ensure a good

405
00:16:19,189 --> 00:16:18,399
future for the program

406
00:16:20,790 --> 00:16:19,199
so

407
00:16:22,790 --> 00:16:20,800
when we think about the commercial crew

408
00:16:25,509 --> 00:16:22,800
program specifically and i i've said

409
00:16:27,910 --> 00:16:25,519
this a lot we are exceptionally grateful

410
00:16:30,710 --> 00:16:27,920
to the leadership of of charlie bolden

411
00:16:32,949 --> 00:16:30,720
and his commitment going back uh many

412
00:16:34,870 --> 00:16:32,959
years um and then of course robert

413
00:16:36,550 --> 00:16:34,880

lightfoot and and then the leadership

414
00:16:39,670 --> 00:16:36,560
that i've had so

415
00:16:42,069 --> 00:16:39,680
um this is a program that um has has

416
00:16:43,749 --> 00:16:42,079
spanned multiple administrations

417
00:16:46,710 --> 00:16:43,759
and i have always said and i will

418
00:16:48,710 --> 00:16:46,720
continue to advocate for nasa um

419
00:16:50,550 --> 00:16:48,720
creating sustainable programs that's

420
00:16:52,949 --> 00:16:50,560
that's what we look for and that's

421
00:16:55,590 --> 00:16:52,959
something that i think we are achieving

422
00:16:57,670 --> 00:16:55,600
with the artemis program

423
00:16:59,829 --> 00:16:57,680
we you know we have seen now bills in

424
00:17:02,389 --> 00:16:59,839
the house and in the senate receive

425
00:17:04,230 --> 00:17:02,399
strong bipartisan support that fund the

426
00:17:06,789 --> 00:17:04,240
human landing system for the moon that

427
00:17:10,789 --> 00:17:06,799
fund the artemis program and

428
00:17:13,029 --> 00:17:10,799
the things that we need to do to achieve

429
00:17:15,270 --> 00:17:13,039
what we would say sustainable programs

430
00:17:17,429 --> 00:17:15,280
we're thinking about programs that

431
00:17:18,549 --> 00:17:17,439
that last not just decades but even a

432
00:17:20,710 --> 00:17:18,559
generation

433
00:17:22,549 --> 00:17:20,720
i would like to see you know a day when

434
00:17:25,110 --> 00:17:22,559
my children are my age and we have

435
00:17:28,150 --> 00:17:25,120
people living and working on the moon

436
00:17:29,830 --> 00:17:28,160
and in fact on mars so to achieve that

437
00:17:32,390 --> 00:17:29,840
we're gonna we're gonna need to have

438
00:17:34,470 --> 00:17:32,400

strong a political bipartisan support

439
00:17:36,150 --> 00:17:34,480
we have worked for that day in and day

440
00:17:37,750 --> 00:17:36,160
out since the day i came to nasa that

441
00:17:39,590 --> 00:17:37,760
was my commitment

442
00:17:41,190 --> 00:17:39,600
and i look at i look at what's happening

443
00:17:42,470 --> 00:17:41,200
in the house in the senate and i i am

444
00:17:44,230 --> 00:17:42,480
confident

445
00:17:45,990 --> 00:17:44,240
that that we have strong bipartisan

446
00:17:47,909 --> 00:17:46,000
support that will result in a

447
00:17:53,510 --> 00:17:47,919
sustainable program

448
00:17:57,029 --> 00:17:55,590
hi this is for jim uh rachel joy with

449
00:17:59,029 --> 00:17:57,039
florida today

450
00:18:01,669 --> 00:17:59,039
wondering if you could briefly kind of

451
00:18:03,909 --> 00:18:01,679
talk about the falcon 9 engine issue

452
00:18:06,470 --> 00:18:03,919
that started with the gps3 mission when

453
00:18:08,789 --> 00:18:06,480
that had that last second abort and how

454
00:18:11,830 --> 00:18:08,799
that played out in terms of engines

455
00:18:14,310 --> 00:18:11,840
being swapped out on gps3 crew one and

456
00:18:15,990 --> 00:18:14,320
sentinel six and how many ultimately are

457
00:18:17,190 --> 00:18:16,000
being swapped out across all three

458
00:18:19,590 --> 00:18:17,200
rockets

459
00:18:21,830 --> 00:18:19,600
so um i'll address your your your

460
00:18:23,909 --> 00:18:21,840
question kind of big picture but i would

461
00:18:25,510 --> 00:18:23,919
refer you we're having a flight

462
00:18:26,390 --> 00:18:25,520
readiness review

463
00:18:27,990 --> 00:18:26,400

and then we're going to have a press

464
00:18:29,830 --> 00:18:28,000
conference after that and i would refer

465
00:18:31,909 --> 00:18:29,840
those questions to the press conference

466
00:18:33,669 --> 00:18:31,919
after the flight readiness review but i

467
00:18:35,909 --> 00:18:33,679
will tell you when we think about the

468
00:18:37,510 --> 00:18:35,919
commercial program itself

469
00:18:39,430 --> 00:18:37,520
and i said this earlier remember what

470
00:18:42,070 --> 00:18:39,440
we're trying to achieve nasa wants to be

471
00:18:44,230 --> 00:18:42,080
one customer of many customers in a very

472
00:18:47,430 --> 00:18:44,240
robust commercial marketplace

473
00:18:50,549 --> 00:18:47,440
one of the benefits of that is that when

474
00:18:53,590 --> 00:18:50,559
the air force or the space force or a

475
00:18:55,110 --> 00:18:53,600
commercial communications satellite

476
00:18:56,950 --> 00:18:55,120
launches

477
00:18:59,270 --> 00:18:56,960
we we're going to get data and

478
00:19:02,230 --> 00:18:59,280
information about the engines on the

479
00:19:04,870 --> 00:19:02,240
falcon 9 rocket about the performance of

480
00:19:08,549 --> 00:19:04,880
the avionics systems etc

481
00:19:10,470 --> 00:19:08,559
and so and so each one of these missions

482
00:19:12,870 --> 00:19:10,480
is actually very informative for what

483
00:19:15,110 --> 00:19:12,880
we're trying to achieve as an agency so

484
00:19:16,470 --> 00:19:15,120
that's that is that is in fact what it

485
00:19:18,390 --> 00:19:16,480
would i think is

486
00:19:20,150 --> 00:19:18,400
so magnificent about the commercial crew

487
00:19:22,230 --> 00:19:20,160
program in general

488
00:19:24,870 --> 00:19:22,240

um i i would say you know when we go

489
00:19:26,470 --> 00:19:24,880
back to the shuttle era every flight was

490
00:19:28,789 --> 00:19:26,480
a human flight

491
00:19:29,990 --> 00:19:28,799
and every flight was in fact a nasa

492
00:19:31,750 --> 00:19:30,000
flight

493
00:19:33,029 --> 00:19:31,760
and in this case we've got commercial

494
00:19:35,350 --> 00:19:33,039
flights as

495
00:19:37,510 --> 00:19:35,360
bob cabana has done he's turned this

496
00:19:39,510 --> 00:19:37,520
facility into a multi-user

497
00:19:41,430 --> 00:19:39,520
spaceport where we have all of these

498
00:19:43,190 --> 00:19:41,440
different entities using these

499
00:19:45,110 --> 00:19:43,200
commercial vehicles including now nasa

500
00:19:46,549 --> 00:19:45,120
so we can get benefits

501
00:19:48,390 --> 00:19:46,559
from all of these other launches so i'll

502
00:19:50,470 --> 00:19:48,400
leave it at that but i would refer you

503
00:19:52,230 --> 00:19:50,480
the flight readiness review is

504
00:19:53,350 --> 00:19:52,240
is going to be happening today and at

505
00:19:55,190 --> 00:19:53,360
the conclusion there will be a

506
00:20:01,590 --> 00:19:55,200
conference and certainly that's a

507
00:20:05,190 --> 00:20:03,029
hi it's chris davenport from the

508
00:20:06,470 --> 00:20:05,200
washington post for for jim

509
00:20:08,710 --> 00:20:06,480
you touched on this in your opening

510
00:20:10,950 --> 00:20:08,720
remarks but there's a lot of talk about

511
00:20:12,950 --> 00:20:10,960
this being the beginning of operational

512
00:20:15,110 --> 00:20:12,960
flights from u.s soil regular flights

513
00:20:16,710 --> 00:20:15,120

with crews to the space station but the

514
00:20:19,029 --> 00:20:16,720
fact of the matter is a crew dragon's

515
00:20:20,390 --> 00:20:19,039
only flown a couple of times can you

516
00:20:22,789 --> 00:20:20,400
talk please a little bit about what

517
00:20:24,870 --> 00:20:22,799
you're doing to ensure that it's safe it

518
00:20:27,190 --> 00:20:24,880
seems to me that this is a test mission

519
00:20:29,990 --> 00:20:27,200
still in a lot of ways

520
00:20:31,190 --> 00:20:30,000
absolutely chris so when we think about

521
00:20:32,390 --> 00:20:31,200
flights

522
00:20:35,430 --> 00:20:32,400
to space

523
00:20:37,270 --> 00:20:35,440
um they they are all uh

524
00:20:39,830 --> 00:20:37,280
we take all of them with great

525
00:20:42,310 --> 00:20:39,840
precaution we take them very seriously

526
00:20:44,070 --> 00:20:42,320
and and every bit of attention to detail

527
00:20:46,950 --> 00:20:44,080
that we have on a test flight we also

528
00:20:49,909 --> 00:20:46,960
have on operational flights um that

529
00:20:51,990 --> 00:20:49,919
being said i've also said you know

530
00:20:53,590 --> 00:20:52,000
we learn from every single flight

531
00:20:55,190 --> 00:20:53,600
whether it's operational or a test

532
00:20:57,350 --> 00:20:55,200
flight but here's the thing we're

533
00:21:00,310 --> 00:20:57,360
launching four astronauts three american

534
00:21:02,230 --> 00:21:00,320
astronauts a japanese astronaut they're

535
00:21:04,390 --> 00:21:02,240
going to the international space station

536
00:21:06,310 --> 00:21:04,400
for a period of six months to do very

537
00:21:08,149 --> 00:21:06,320
real and serious work on behalf of the

538
00:21:10,230 --> 00:21:08,159

american people and on behalf of

539
00:21:11,430 --> 00:21:10,240
humanity at large

540
00:21:13,909 --> 00:21:11,440
and so

541
00:21:14,710 --> 00:21:13,919
this it is operational but it is also

542
00:21:17,029 --> 00:21:14,720
true

543
00:21:19,669 --> 00:21:17,039
that when you think about space flight

544
00:21:21,029 --> 00:21:19,679
every flight is a test flight there's

545
00:21:22,310 --> 00:21:21,039
always something new and always

546
00:21:23,830 --> 00:21:22,320
something different

547
00:21:25,270 --> 00:21:23,840
in this case they're going for a longer

548
00:21:26,630 --> 00:21:25,280
period of time they're going to be doing

549
00:21:28,630 --> 00:21:26,640
different things on the international

550
00:21:29,750 --> 00:21:28,640
space station they're going with a crew

551
00:21:31,669 --> 00:21:29,760
of four and they're going to be doing

552
00:21:33,430 --> 00:21:31,679
some different things on the way and

553
00:21:35,590 --> 00:21:33,440
each one of those

554
00:21:37,110 --> 00:21:35,600
requires us to be exceptionally diligent

555
00:21:39,110 --> 00:21:37,120
which we always are

556
00:21:46,149 --> 00:21:39,120
but but make make certain we don't take

557
00:21:50,230 --> 00:21:48,870
good morning i'm melanie holt to wf tv

558
00:21:52,230 --> 00:21:50,240
and this question is for the

559
00:21:54,390 --> 00:21:52,240
administrator i'm just piggybacking on

560
00:21:56,470 --> 00:21:54,400
an earlier question really

561
00:21:57,909 --> 00:21:56,480
we were talking about just the change

562
00:21:59,750 --> 00:21:57,919
that is coming now with this

563
00:22:02,470 --> 00:21:59,760

administration as well and i'd like to

564
00:22:05,270 --> 00:22:02,480
know if given the opportunity

565
00:22:07,510 --> 00:22:05,280
would you like to continue the work

566
00:22:10,310 --> 00:22:07,520
that has already begun here

567
00:22:12,310 --> 00:22:10,320
so um i will refer you to the the

568
00:22:14,549 --> 00:22:12,320
comments that i made to irene klotz who

569
00:22:16,070 --> 00:22:14,559
is standing behind you i made them on

570
00:22:19,510 --> 00:22:16,080
sunday and i'm going to leave my

571
00:22:19,520 --> 00:22:23,110
thank you

572
00:22:27,990 --> 00:22:26,070
hi i'm irene klotz with aviation week um

573
00:22:29,909 --> 00:22:28,000
jim what is the status of the

574
00:22:31,830 --> 00:22:29,919
discussions with the russians to do

575
00:22:35,190 --> 00:22:31,840
cruise swaps for commercial crew and

576
00:22:38,789 --> 00:22:36,470
so i know

577
00:22:40,630 --> 00:22:38,799
both countries are committed to the

578
00:22:42,390 --> 00:22:40,640
international space station and the the

579
00:22:44,310 --> 00:22:42,400
amazing work that has been going on

580
00:22:45,270 --> 00:22:44,320
there now with humans on board for 20

581
00:22:47,590 --> 00:22:45,280
years

582
00:22:49,990 --> 00:22:47,600
um you know we're moving into this new

583
00:22:52,149 --> 00:22:50,000
era where instead of nasa you know

584
00:22:53,990 --> 00:22:52,159
purchasing seats

585
00:22:56,310 --> 00:22:54,000
we want to have an exchange of seats

586
00:22:58,070 --> 00:22:56,320
where american astronauts can fly on

587
00:23:00,549 --> 00:22:58,080
russian soyuz rockets and russian

588
00:23:01,669 --> 00:23:00,559

cosmonauts can fly on commercial crew

589
00:23:03,750 --> 00:23:01,679
vehicles

590
00:23:05,270 --> 00:23:03,760
that's the direction that that i think

591
00:23:07,430 --> 00:23:05,280
both countries have an interest in

592
00:23:09,190 --> 00:23:07,440
achieving and that's necessary because

593
00:23:11,110 --> 00:23:09,200
we want to see a day

594
00:23:13,990 --> 00:23:11,120
where if if there is a challenge with

595
00:23:15,430 --> 00:23:14,000
one of the vehicles and it's down for a

596
00:23:17,270 --> 00:23:15,440
period of time

597
00:23:18,870 --> 00:23:17,280
we have continual access to the

598
00:23:21,669 --> 00:23:18,880
international space station by both

599
00:23:24,470 --> 00:23:21,679
partners um so so those discussions are

600
00:23:25,669 --> 00:23:24,480
ongoing um we don't have a resolution at

601
00:23:27,029 --> 00:23:25,679
this point but certainly that's

602
00:23:28,230 --> 00:23:27,039
something both countries are working

603
00:23:31,110 --> 00:23:28,240
towards

604
00:23:33,510 --> 00:23:31,120
i can ask a second question of mr dixon

605
00:23:36,950 --> 00:23:33,520
is uh the process that you just went

606
00:23:38,870 --> 00:23:36,960
through to certify this mission how

607
00:23:41,110 --> 00:23:38,880
similar will that be

608
00:23:43,909 --> 00:23:41,120
when you're asked to certify flights

609
00:23:45,750 --> 00:23:43,919
with non-professional astronauts

610
00:23:48,149 --> 00:23:45,760
it's a great question it'll be very

611
00:23:49,909 --> 00:23:48,159
really the same process

612
00:23:52,789 --> 00:23:49,919
and it's very similar to the process

613
00:23:55,750 --> 00:23:52,799

that we've been using uh for many years

614
00:23:58,549 --> 00:23:55,760
on unmanned commercial missions uh i

615
00:24:01,590 --> 00:23:58,559
think that uh though to jim's point

616
00:24:04,630 --> 00:24:01,600
about sustainable programs the faa being

617
00:24:07,350 --> 00:24:04,640
involved this is part of scaling

618
00:24:09,269 --> 00:24:07,360
manned commercial space missions

619
00:24:11,269 --> 00:24:09,279
in a larger and a larger way because

620
00:24:12,789 --> 00:24:11,279
they'll become a more

621
00:24:15,350 --> 00:24:12,799
routine

622
00:24:17,990 --> 00:24:15,360
part of the aerospace system

623
00:24:19,750 --> 00:24:18,000
in our country so again it's it's really

624
00:24:21,909 --> 00:24:19,760
building on the work that we've all done

625
00:24:24,390 --> 00:24:21,919
together uh nasa and the fa have

626
00:24:25,669 --> 00:24:24,400
partnered on many issues over the years

627
00:24:31,430 --> 00:24:25,679
and this is just another form of that

628
00:24:35,029 --> 00:24:33,669
hi steven clark from space flight now uh

629
00:24:37,830 --> 00:24:35,039
if i could ask two please first for

630
00:24:40,310 --> 00:24:37,840
administrator brian stein um i wanted to

631
00:24:41,830 --> 00:24:40,320
get your response to the appropriations

632
00:24:43,669 --> 00:24:41,840
bill in the senate that

633
00:24:45,510 --> 00:24:43,679
provides about a billion dollars to the

634
00:24:46,630 --> 00:24:45,520
hls program

635
00:24:49,190 --> 00:24:46,640
less than a third of what the

636
00:24:50,630 --> 00:24:49,200
administration requested

637
00:24:53,590 --> 00:24:50,640
a little bit more than the house version

638
00:24:55,269 --> 00:24:53,600

but but but not as much as you requested

639
00:24:56,789 --> 00:24:55,279
just wanted to see how

640
00:24:58,710 --> 00:24:56,799
that whole process is going to affect

641
00:25:01,190 --> 00:24:58,720
the hls procurement and

642
00:25:03,190 --> 00:25:01,200
in 2024 for artemis and for sunny

643
00:25:04,630 --> 00:25:03,200
williams um

644
00:25:07,590 --> 00:25:04,640
what's the latest you're hearing from

645
00:25:09,510 --> 00:25:07,600
the boeing team on starliner and uh when

646
00:25:12,549 --> 00:25:09,520
those test flights may be uh you know

647
00:25:15,110 --> 00:25:12,559
oft2 uh crew flight test and when you're

648
00:25:17,750 --> 00:25:15,120
gonna fly and and what's driving the

649
00:25:20,230 --> 00:25:17,760
schedule right now thank you

650
00:25:21,750 --> 00:25:20,240
great questions both i'll tell you um

651
00:25:23,110 --> 00:25:21,760
when it comes to

652
00:25:24,870 --> 00:25:23,120
the bills that we've seen in the house

653
00:25:25,669 --> 00:25:24,880
and the senate first of all we currently

654
00:25:28,070 --> 00:25:25,679
have

655
00:25:30,310 --> 00:25:28,080
enacted a 600 million dollar

656
00:25:32,470 --> 00:25:30,320
appropriation for a human landing system

657
00:25:34,870 --> 00:25:32,480
which was done with bipartisan support

658
00:25:37,830 --> 00:25:34,880
in both the house and the senate and has

659
00:25:39,830 --> 00:25:37,840
now resulted in three contractors

660
00:25:42,230 --> 00:25:39,840
being contracted to develop the human

661
00:25:43,830 --> 00:25:42,240
landing system so that i want to be

662
00:25:46,470 --> 00:25:43,840
clear that is something that has not

663
00:25:48,789 --> 00:25:46,480

happened since 1972

664
00:25:51,110 --> 00:25:48,799
so we are exceptionally

665
00:25:52,950 --> 00:25:51,120
grateful for where we are right now

666
00:25:54,710 --> 00:25:52,960
because of the bipartisan support we've

667
00:25:57,190 --> 00:25:54,720
had from the house and senate

668
00:26:00,710 --> 00:25:57,200
um and i would say when we look at what

669
00:26:03,190 --> 00:26:00,720
you know what we're looking for for 2021

670
00:26:04,789 --> 00:26:03,200
number one the house has again passed a

671
00:26:07,190 --> 00:26:04,799
bipartisan bill that funds a human

672
00:26:09,909 --> 00:26:07,200
landing system at 600 million dollars

673
00:26:11,350 --> 00:26:09,919
the senate has passed a human landing or

674
00:26:13,590 --> 00:26:11,360
they haven't passed it but they have

675
00:26:15,750 --> 00:26:13,600
they have now presented a bill that has

676
00:26:17,430 --> 00:26:15,760
the human landing system funded at one

677
00:26:20,149 --> 00:26:17,440
billion dollars

678
00:26:22,630 --> 00:26:20,159
again strong bipartisan support in both

679
00:26:25,110 --> 00:26:22,640
chambers very very positive for the

680
00:26:27,909 --> 00:26:25,120
creation of a sustainable program which

681
00:26:29,269 --> 00:26:27,919
of course is our highest priority we've

682
00:26:31,350 --> 00:26:29,279
been through times in the past the

683
00:26:32,630 --> 00:26:31,360
vision for space exploration where we

684
00:26:34,310 --> 00:26:32,640
have plans to go to the moon and they

685
00:26:35,909 --> 00:26:34,320
get cancelled the space exploration

686
00:26:37,750 --> 00:26:35,919
initiative we have plans to go to the

687
00:26:40,310 --> 00:26:37,760
moon and they get cancelled that's why

688
00:26:42,950 --> 00:26:40,320

this bipartisan apolitical support is so

689
00:26:45,430 --> 00:26:42,960
important and i'll tell you i'm very

690
00:26:47,110 --> 00:26:45,440
grateful for the fact that as hard as we

691
00:26:49,029 --> 00:26:47,120
have worked to achieve it we now have

692
00:26:50,630 --> 00:26:49,039
that now is it everything that we

693
00:26:52,630 --> 00:26:50,640
requested in the budget request the

694
00:26:54,710 --> 00:26:52,640
answer is no and you know that

695
00:26:57,029 --> 00:26:54,720
um but i will also tell you that the

696
00:26:58,310 --> 00:26:57,039
process is ongoing uh there's a bill in

697
00:26:59,830 --> 00:26:58,320
the house there's now a bill in the

698
00:27:01,669 --> 00:26:59,840
senate they're gonna have to be

699
00:27:03,430 --> 00:27:01,679
conferenced there's gonna be discussions

700
00:27:06,310 --> 00:27:03,440
with the white house and

701
00:27:07,830 --> 00:27:06,320
and um and i think you know at the end

702
00:27:09,990 --> 00:27:07,840
we would like to see the full amount

703
00:27:12,470 --> 00:27:10,000
funded but i will also say

704
00:27:14,950 --> 00:27:12,480
it is critically important to recognize

705
00:27:16,710 --> 00:27:14,960
the strong apolitical bipartisan support

706
00:27:21,830 --> 00:27:16,720
for the human landing system and the

707
00:27:25,510 --> 00:27:23,750
yeah a quick note on starliner it you

708
00:27:26,789 --> 00:27:25,520
know it's an amazing vehicle it's great

709
00:27:28,789 --> 00:27:26,799
we've got two of them that we're going

710
00:27:30,389 --> 00:27:28,799
to be flying and we're making sure all

711
00:27:33,269 --> 00:27:30,399
the t's are crossed all the eyes are

712
00:27:35,830 --> 00:27:33,279
dotted and the next spacecraft to go up

713
00:27:37,750 --> 00:27:35,840

oft2 will be ready essentially for

714
00:27:39,510 --> 00:27:37,760
people to be on board so it's a little

715
00:27:41,190 --> 00:27:39,520
bit different from oft-1 where we didn't

716
00:27:42,950 --> 00:27:41,200
have all of the systems in place so it's

717
00:27:45,029 --> 00:27:42,960
a little bit more diligent that we're

718
00:27:46,310 --> 00:27:45,039
working on the spacecraft end of this

719
00:27:48,470 --> 00:27:46,320
year beginning of next year we should

720
00:27:50,310 --> 00:27:48,480
have oft2 cft

721
00:27:52,230 --> 00:27:50,320
not too long after that ready to follow

722
00:27:53,990 --> 00:27:52,240
probably by springtime and

723
00:27:55,830 --> 00:27:54,000
knock on wood i'm hoping me and my crew

724
00:27:56,630 --> 00:27:55,840
will be ready to go by the end of next

725
00:28:00,070 --> 00:27:56,640
year

726
00:28:01,830 --> 00:28:00,080
you know we also have to worry about

727
00:28:03,029 --> 00:28:01,840
what ports are open on the space station

728
00:28:04,870 --> 00:28:03,039
you know it's getting a little crowded

729
00:28:06,310 --> 00:28:04,880
in space and that's a really good thing

730
00:28:08,070 --> 00:28:06,320
and we're just gonna have to work into

731
00:28:09,750 --> 00:28:08,080
the schedule so

732
00:28:13,909 --> 00:28:09,760
stand by it's gonna be before you know

733
00:28:17,909 --> 00:28:15,590
this question is for the administrator

734
00:28:19,269 --> 00:28:17,919
gio benitez with abc news mr

735
00:28:21,269 --> 00:28:19,279
administrator we've talked about this

736
00:28:22,950 --> 00:28:21,279
before and i know it's not lost on you

737
00:28:24,549 --> 00:28:22,960
that these historic launches are

738
00:28:27,110 --> 00:28:24,559

happening in the midst of a global

739
00:28:29,750 --> 00:28:27,120
pandemic so with you could even argue

740
00:28:31,750 --> 00:28:29,760
that more people are suffering now than

741
00:28:33,909 --> 00:28:31,760
they were in may when we saw that other

742
00:28:36,710 --> 00:28:33,919
launch how do you convince the american

743
00:28:39,510 --> 00:28:36,720
people that this is an important

744
00:28:41,669 --> 00:28:39,520
mission that needs to happen right now

745
00:28:42,789 --> 00:28:41,679
well it really is an important mission i

746
00:28:44,149 --> 00:28:42,799
mean you look at the work that's

747
00:28:46,070 --> 00:28:44,159
happening that's going to be beneficial

748
00:28:47,909 --> 00:28:46,080
for humanity and i'll i'll just give you

749
00:28:50,950 --> 00:28:47,919
some that are that are that are you know

750
00:28:53,110 --> 00:28:50,960
very salient right now we are advancing

751
00:28:55,190 --> 00:28:53,120
you know medicine using the microgravity

752
00:28:57,190 --> 00:28:55,200
of space in ways that you cannot do here

753
00:28:58,710 --> 00:28:57,200
in the gravity well of earth compounding

754
00:29:01,029 --> 00:28:58,720
pharmaceuticals

755
00:29:02,789 --> 00:29:01,039
we are advancing immunizations and the

756
00:29:05,750 --> 00:29:02,799
the two that i talk about the most are

757
00:29:08,149 --> 00:29:05,760
salmonella and pneumonia immunizations

758
00:29:10,389 --> 00:29:08,159
uh immunization capabilities that have

759
00:29:12,470 --> 00:29:10,399
been advanced using the microgravity of

760
00:29:14,710 --> 00:29:12,480
space that have had transformational

761
00:29:16,549 --> 00:29:14,720
impacts for life here on earth but of

762
00:29:18,070 --> 00:29:16,559
course you know we're talking about

763
00:29:20,070 --> 00:29:18,080

four astronauts going to the

764
00:29:21,990 --> 00:29:20,080
international space station the amount

765
00:29:23,669 --> 00:29:22,000
of research that we can get given the

766
00:29:26,870 --> 00:29:23,679
complement on the international space

767
00:29:29,029 --> 00:29:26,880
station right now is good when we have

768
00:29:30,470 --> 00:29:29,039
additional astronauts a full complement

769
00:29:32,230 --> 00:29:30,480
to crew on the international space

770
00:29:34,549 --> 00:29:32,240
station the amount of research is going

771
00:29:36,789 --> 00:29:34,559
to be transformational and so it is

772
00:29:38,470 --> 00:29:36,799
critically important as we advance the

773
00:29:41,350 --> 00:29:38,480
human condition here on earth whether

774
00:29:43,510 --> 00:29:41,360
we're you know we talk about creating uh

775
00:29:45,190 --> 00:29:43,520
human tissue in the microgravity of

776
00:29:47,269 --> 00:29:45,200
space where it doesn't go flat like it

777
00:29:49,029 --> 00:29:47,279
does in the gravity well of earth um

778
00:29:51,750 --> 00:29:49,039
that human tissue is regenerative in

779
00:29:54,389 --> 00:29:51,760
nature and it can be used uh to

780
00:29:56,149 --> 00:29:54,399
to to maybe save lives one day

781
00:29:57,830 --> 00:29:56,159
so these are the kind of technologies

782
00:30:00,149 --> 00:29:57,840
when we talk about industrialized

783
00:30:02,230 --> 00:30:00,159
biomedicine that are happening on the

784
00:30:04,149 --> 00:30:02,240
international space station right now

785
00:30:06,230 --> 00:30:04,159
that may relate to this pandemic that

786
00:30:07,830 --> 00:30:06,240
may relate to the next pandemic that may

787
00:30:10,310 --> 00:30:07,840
relate to people

788
00:30:11,830 --> 00:30:10,320

right now that have macular degeneration

789
00:30:13,669 --> 00:30:11,840
we're creating

790
00:30:15,190 --> 00:30:13,679
artificial retinas for the human eyeball

791
00:30:17,110 --> 00:30:15,200
on the international space station using

792
00:30:19,590 --> 00:30:17,120
advanced materials not biomedicine but

793
00:30:21,909 --> 00:30:19,600
advanced materials so these are the kind

794
00:30:23,590 --> 00:30:21,919
of things that are transformational for

795
00:30:25,350 --> 00:30:23,600
life on earth

796
00:30:26,470 --> 00:30:25,360
and and we believe that it's critically

797
00:30:28,149 --> 00:30:26,480
important i also want to give

798
00:30:30,070 --> 00:30:28,159
compliments to bob

799
00:30:32,870 --> 00:30:30,080
uh cabana a

800
00:30:34,950 --> 00:30:32,880
shuttle astronaut four missions um who

801
00:30:36,950 --> 00:30:34,960
has done great work as the leader of

802
00:30:39,590 --> 00:30:36,960
this center um

803
00:30:41,830 --> 00:30:39,600
we have had cases at the center but but

804
00:30:43,350 --> 00:30:41,840
the amount but it's not it's

805
00:30:45,669 --> 00:30:43,360
people aren't getting it here they're

806
00:30:48,710 --> 00:30:45,679
getting it other places because of the

807
00:30:50,950 --> 00:30:48,720
protocols bob has put in place and the

808
00:30:53,510 --> 00:30:50,960
adherence the great workforce here at

809
00:30:56,070 --> 00:30:53,520
kennedy the adherence to those protocols

810
00:30:58,070 --> 00:30:56,080
social distancing mask wearing

811
00:30:59,430 --> 00:30:58,080
if you don't need to come to work

812
00:31:01,590 --> 00:30:59,440
if you can do your work from home do it

813
00:31:03,110 --> 00:31:01,600

from home these are the protocols uh

814
00:31:04,789 --> 00:31:03,120
that we've put in place here at kennedy

815
00:31:06,389 --> 00:31:04,799
bob has led the effort and there's been

816
00:31:08,789 --> 00:31:06,399
a lot of success

817
00:31:10,789 --> 00:31:08,799
so we need that to continue but but i

818
00:31:12,630 --> 00:31:10,799
feel good about where we are and i think

819
00:31:17,029 --> 00:31:12,640
the american people do as well

820
00:31:21,350 --> 00:31:19,110
hi ken kramer space up close uh thank

821
00:31:22,710 --> 00:31:21,360
you for doing this and jim i want to say

822
00:31:24,950 --> 00:31:22,720
thank you for being a great

823
00:31:26,710 --> 00:31:24,960
administrator you've really

824
00:31:29,190 --> 00:31:26,720
motivated everybody and excited

825
00:31:31,430 --> 00:31:29,200
everybody with artemis just like uh the

826
00:31:33,190 --> 00:31:31,440
faa gentlemen exciting the kids it's so

827
00:31:34,710 --> 00:31:33,200
so important we've been waiting decades

828
00:31:37,029 --> 00:31:34,720
to go back to the moon so thank you for

829
00:31:38,870 --> 00:31:37,039
your impetus and in your team and

830
00:31:41,750 --> 00:31:38,880
getting that done okay

831
00:31:44,070 --> 00:31:41,760
so my question is also about artemis um

832
00:31:45,269 --> 00:31:44,080
we've had a lot of hurricanes in uh in

833
00:31:48,070 --> 00:31:45,279
in the gulf

834
00:31:50,230 --> 00:31:48,080
very near and passing over uh

835
00:31:51,909 --> 00:31:50,240
the uh the core stage how is the core

836
00:31:55,430 --> 00:31:51,919
stage doing how are nasa facilities

837
00:31:58,230 --> 00:31:55,440
doing there in the stennis and michoud

838
00:31:59,509 --> 00:31:58,240

well for for sure um the there have been

839
00:32:03,269 --> 00:31:59,519
impacts

840
00:32:05,110 --> 00:32:03,279
from hurricanes and of course from covid

841
00:32:07,269 --> 00:32:05,120
and and people are aware that the the

842
00:32:08,470 --> 00:32:07,279
core stage of the sls i mean that's the

843
00:32:09,909 --> 00:32:08,480
challenge right now we've got to get

844
00:32:11,029 --> 00:32:09,919
that complete we've got to get the green

845
00:32:13,509 --> 00:32:11,039
run test

846
00:32:16,470 --> 00:32:13,519
uh complete um and and we're working on

847
00:32:18,230 --> 00:32:16,480
that every day um and the reason we do

848
00:32:21,110 --> 00:32:18,240
the green run test we go through every

849
00:32:23,190 --> 00:32:21,120
system and every subsystem and and and

850
00:32:24,549 --> 00:32:23,200
we test all of the limits to make sure

851
00:32:26,470 --> 00:32:24,559
all of the margin is and we're going to

852
00:32:27,509 --> 00:32:26,480
find things and when we find things

853
00:32:28,389 --> 00:32:27,519
we're going to get them corrected

854
00:32:31,029 --> 00:32:28,399
remember

855
00:32:32,149 --> 00:32:31,039
the sls rocket is not

856
00:32:35,590 --> 00:32:32,159
it

857
00:32:38,870 --> 00:32:35,600
the moon

858
00:32:41,029 --> 00:32:38,880
well i'll say this it's going to launch

859
00:32:42,549 --> 00:32:41,039
orion and the european service module to

860
00:32:44,470 --> 00:32:42,559
the moon

861
00:32:46,710 --> 00:32:44,480
and and so we have to make sure we get

862
00:32:49,909 --> 00:32:46,720
it right and if when we get this first

863
00:32:51,029 --> 00:32:49,919

one right uh you know the second sls is

864
00:32:54,230 --> 00:32:51,039
going to launch

865
00:32:56,310 --> 00:32:54,240
american astronauts around the moon so

866
00:32:57,990 --> 00:32:56,320
so this is uh this is a program that uh

867
00:32:59,430 --> 00:32:58,000
that is on the five yard line and we're

868
00:33:01,909 --> 00:32:59,440
very excited about getting the test

869
00:33:04,070 --> 00:33:01,919
complete getting the core stage here you

870
00:33:06,789 --> 00:33:04,080
know yesterday i was at the vab the the

871
00:33:09,029 --> 00:33:06,799
vehicle assembly building um and the

872
00:33:10,710 --> 00:33:09,039
solid rocket boosters are there ready to

873
00:33:11,990 --> 00:33:10,720
to be integrated they're not in the

874
00:33:13,909 --> 00:33:12,000
vehicle assembly building now but

875
00:33:16,230 --> 00:33:13,919
they're in the processing facility but

876
00:33:18,310 --> 00:33:16,240
they're here at kennedy um

877
00:33:20,470 --> 00:33:18,320
you know we saw you know the orion crew

878
00:33:23,029 --> 00:33:20,480
capsule is ready and tested the european

879
00:33:25,110 --> 00:33:23,039
service module is ready and tested

880
00:33:26,630 --> 00:33:25,120
the adapters and the fairings everything

881
00:33:28,950 --> 00:33:26,640
is ready we just got to get that core

882
00:33:31,669 --> 00:33:28,960
stage here the uh you know we saw just

883
00:33:33,590 --> 00:33:31,679
recently the the mobile launcher roll

884
00:33:35,909 --> 00:33:33,600
out and then roll back in and uh

885
00:33:37,590 --> 00:33:35,919
yesterday i saw it in its completed form

886
00:33:39,190 --> 00:33:37,600
and it's beautiful bob told me that

887
00:33:42,070 --> 00:33:39,200
would not that would not be what holds

888
00:33:43,909 --> 00:33:42,080

us up and so far he's been right so

889
00:33:45,669 --> 00:33:43,919
um so there's uh there's a lot of

890
00:33:47,190 --> 00:33:45,679
positive things happening and uh we're

891
00:33:49,669 --> 00:33:47,200
very excited about getting that first

892
00:33:52,070 --> 00:33:49,679
launch done um at as of this point the

893
00:33:54,470 --> 00:33:52,080
november date of 2021 for that first

894
00:33:57,110 --> 00:33:54,480
launch has not changed we had margin in

895
00:33:58,950 --> 00:33:57,120
that schedule

896
00:34:00,789 --> 00:33:58,960
but i will also tell you that

897
00:34:03,350 --> 00:34:00,799
that with covid and the hurricanes and

898
00:34:05,110 --> 00:34:03,360
some other things that margin is gonna

899
00:34:06,630 --> 00:34:05,120
is gonna slip so

900
00:34:07,830 --> 00:34:06,640
right now we're holding to that schedule

901
00:34:09,990 --> 00:34:07,840
is that going to stay that way it

902
00:34:11,589 --> 00:34:10,000
depends i mean as time goes on we're

903
00:34:14,149 --> 00:34:11,599
going to we're going to learn more about

904
00:34:16,230 --> 00:34:14,159
how these impacts are affecting us

905
00:34:17,190 --> 00:34:16,240
thanks can i ask one more question about

906
00:34:19,829 --> 00:34:17,200
covid

907
00:34:21,510 --> 00:34:19,839
if there's any research on the iss

908
00:34:23,990 --> 00:34:21,520
directed towards covid or have you been

909
00:34:24,790 --> 00:34:24,000
contacted by the vaccine companies at

910
00:34:27,190 --> 00:34:24,800
all

911
00:34:28,470 --> 00:34:27,200
to to that where the iss could assist in

912
00:34:30,950 --> 00:34:28,480
that research

913
00:34:32,069 --> 00:34:30,960

not not on the vaccines per se but i

914
00:34:34,069 --> 00:34:32,079
will tell you

915
00:34:36,629 --> 00:34:34,079
you know when when when when the

916
00:34:38,550 --> 00:34:36,639
pandemic first began we had great great

917
00:34:40,869 --> 00:34:38,560
folks at the jet propulsion laboratory

918
00:34:44,389 --> 00:34:40,879
which is one of the nasa centers at

919
00:34:46,389 --> 00:34:44,399
caltech university um and and they when

920
00:34:48,470 --> 00:34:46,399
they when they had to stop work on some

921
00:34:50,629 --> 00:34:48,480
projects because of covid they went to

922
00:34:52,950 --> 00:34:50,639
work in their own homes and they created

923
00:34:54,310 --> 00:34:52,960
a ventilator that uses none of the parts

924
00:34:56,310 --> 00:34:54,320
that come from the other you know

925
00:34:58,230 --> 00:34:56,320
ventilator manufacturing capabilities

926
00:34:59,910 --> 00:34:58,240
that ventilator

927
00:35:02,069 --> 00:34:59,920
has now been licensed to a number of

928
00:35:03,670 --> 00:35:02,079
companies for mass manufacturing if and

929
00:35:06,390 --> 00:35:03,680
when needed

930
00:35:08,550 --> 00:35:06,400
i will tell you that the way we

931
00:35:10,550 --> 00:35:08,560
the way we um

932
00:35:12,310 --> 00:35:10,560
the way we make sure that we protect

933
00:35:13,349 --> 00:35:12,320
planets when we fly robots to other

934
00:35:15,670 --> 00:35:13,359
worlds

935
00:35:17,430 --> 00:35:15,680
that's basically with a fog and and we

936
00:35:19,670 --> 00:35:17,440
make sure that we don't take any

937
00:35:21,990 --> 00:35:19,680
microbes to any other worlds

938
00:35:25,270 --> 00:35:22,000

well that that fog actually kills

939
00:35:28,230 --> 00:35:25,280
viruses as well um and and and and we

940
00:35:30,710 --> 00:35:28,240
have we have now um partnered with

941
00:35:32,790 --> 00:35:30,720
a company in in ohio

942
00:35:34,550 --> 00:35:32,800
to use that fog to clean the inside of

943
00:35:36,150 --> 00:35:34,560
ambulances and now it's going to be

944
00:35:38,390 --> 00:35:36,160
scaled up to clean the inside of

945
00:35:40,630 --> 00:35:38,400
classrooms and businesses and you know

946
00:35:42,870 --> 00:35:40,640
you name it any any closed space

947
00:35:45,030 --> 00:35:42,880
um so that there are great things that

948
00:35:46,630 --> 00:35:45,040
are happening at nasa that support the

949
00:35:48,230 --> 00:35:46,640
covid response

950
00:35:50,390 --> 00:35:48,240
but as far as any immunization

951
00:35:55,910 --> 00:35:50,400
capability at this point if there is i

952
00:36:01,109 --> 00:35:58,550
hello and konichiwa

953
00:36:03,109 --> 00:36:01,119
phil keating fox news i'll i'll identify

954
00:36:04,470 --> 00:36:03,119
two issues that that we took up and and

955
00:36:06,069 --> 00:36:04,480
dealt with and and then i'll turn it

956
00:36:07,829 --> 00:36:06,079
over to bob regarding the launch pad

957
00:36:10,230 --> 00:36:07,839
itself um

958
00:36:12,710 --> 00:36:10,240
so when when the when the when the

959
00:36:15,109 --> 00:36:12,720
capsule came back um it looked like the

960
00:36:16,870 --> 00:36:15,119
ablative heat shield uh had some spots

961
00:36:19,750 --> 00:36:16,880
where it may have ablated more than we

962
00:36:22,230 --> 00:36:19,760
anticipated within limits within margin

963
00:36:23,270 --> 00:36:22,240

uh but but but more than we anticipated

964
00:36:25,430 --> 00:36:23,280
and of course

965
00:36:27,750 --> 00:36:25,440
the good thing again about commercial

966
00:36:29,510 --> 00:36:27,760
crew and commercial resupply is that

967
00:36:31,829 --> 00:36:29,520
that we've tested a lot of heat shields

968
00:36:34,470 --> 00:36:31,839
and we've seen a lot of a lot of heat

969
00:36:36,390 --> 00:36:34,480
shields now um we we've made adjustments

970
00:36:38,470 --> 00:36:36,400
to the heat shield to to ensure that

971
00:36:41,030 --> 00:36:38,480
that that we that we understood what the

972
00:36:42,630 --> 00:36:41,040
issue was and and fixed it

973
00:36:44,630 --> 00:36:42,640
and then there was an issue on the

974
00:36:47,270 --> 00:36:44,640
parachutes where

975
00:36:50,150 --> 00:36:47,280
they opened uh maybe a fraction of a

976
00:36:52,150 --> 00:36:50,160
second later than we anticipated all

977
00:36:54,390 --> 00:36:52,160
within margin i want to be very clear

978
00:36:57,510 --> 00:36:54,400
all within what was specified as far as

979
00:36:58,950 --> 00:36:57,520
the the realm of safety um but it might

980
00:37:00,550 --> 00:36:58,960
have taken just a little bit longer for

981
00:37:01,750 --> 00:37:00,560
those parachutes to deploy so i think

982
00:37:04,710 --> 00:37:01,760
they deployed

983
00:37:06,550 --> 00:37:04,720
at around 6000 feet instead of 6500 or

984
00:37:08,310 --> 00:37:06,560
whatever the number was

985
00:37:10,710 --> 00:37:08,320
but but those are two issues that have

986
00:37:11,670 --> 00:37:10,720
been resolved um again i want to be

987
00:37:14,310 --> 00:37:11,680
clear

988
00:37:16,150 --> 00:37:14,320

uh they were within margin and safe

989
00:37:17,510 --> 00:37:16,160
uh we just wanted to understand it a

990
00:37:19,589 --> 00:37:17,520
little bit more make some adjustments

991
00:37:24,150 --> 00:37:19,599
and we did as far as the pad i'll turn

992
00:37:28,950 --> 00:37:26,390
so the pad's ready to go but after every

993
00:37:30,470 --> 00:37:28,960
launch regardless of what pad it is or

994
00:37:32,390 --> 00:37:30,480
there are maintenance procedures that

995
00:37:34,069 --> 00:37:32,400
have to be followed to inspect the pad

996
00:37:35,670 --> 00:37:34,079
and go back and correct some things that

997
00:37:37,670 --> 00:37:35,680
may have been damaged but to ensure that

998
00:37:40,310 --> 00:37:37,680
the pad's ready for the next launch and

999
00:37:42,150 --> 00:37:40,320
that that goes for any pad out here so

1000
00:37:44,390 --> 00:37:42,160
spacex went through everything after

1001
00:37:45,750 --> 00:37:44,400
every launch and they're good to go i

1002
00:37:47,030 --> 00:37:45,760
wasn't really referring to the pad

1003
00:37:49,109 --> 00:37:47,040
itself but

1004
00:37:51,190 --> 00:37:49,119
the capsule and the rocket stack as we

1005
00:37:53,190 --> 00:37:51,200
approach launch tomorrow night yeah

1006
00:37:54,310 --> 00:37:53,200
right now as the administrator said

1007
00:37:56,790 --> 00:37:54,320
we're going to have our launch readiness

1008
00:37:58,310 --> 00:37:56,800
review with spacex here at noon and

1009
00:38:00,470 --> 00:37:58,320
we'll find out the latest detail on

1010
00:38:01,750 --> 00:38:00,480
everything up until now as far as i know

1011
00:38:04,150 --> 00:38:01,760
they're working no

1012
00:38:05,670 --> 00:38:04,160
serious issues and we're good to go but

1013
00:38:11,109 --> 00:38:05,680

we'll have the details after the launch

1014
00:38:14,710 --> 00:38:12,950
good morning this is takurya katsumra

1015
00:38:17,270 --> 00:38:14,720
from japan's nippon television this is a

1016
00:38:19,190 --> 00:38:17,280
question for mr bridenstine so tomorrow

1017
00:38:22,550 --> 00:38:19,200
is going to be a a historical

1018
00:38:24,630 --> 00:38:22,560
operational flight of crew one where uh

1019
00:38:27,750 --> 00:38:24,640
solitaire will be flying alongside

1020
00:38:29,910 --> 00:38:27,760
american astronauts how significant how

1021
00:38:31,510 --> 00:38:29,920
significant it is and what's the meaning

1022
00:38:34,310 --> 00:38:31,520
of it for

1023
00:38:36,470 --> 00:38:34,320
nasa as well as for jaxa

1024
00:38:39,510 --> 00:38:36,480
yeah no it is extremely significant

1025
00:38:40,870 --> 00:38:39,520
soichinoguchi is an amazing astronaut

1026
00:38:42,230 --> 00:38:40,880
he's an amazing

1027
00:38:44,069 --> 00:38:42,240
human being

1028
00:38:46,950 --> 00:38:44,079
and he's not just a japanese hero he's

1029
00:38:48,870 --> 00:38:46,960
an american hero i think he is uh he is

1030
00:38:50,790 --> 00:38:48,880
one of the finest um

1031
00:38:52,150 --> 00:38:50,800
i will tell you uh

1032
00:38:53,670 --> 00:38:52,160
you know when we think about the

1033
00:38:56,230 --> 00:38:53,680
partnerships that we have around the

1034
00:38:57,750 --> 00:38:56,240
world japan is among the best partners

1035
00:38:59,589 --> 00:38:57,760
that we have

1036
00:39:01,109 --> 00:38:59,599
and i will also say

1037
00:39:02,950 --> 00:39:01,119
that the significance of that

1038
00:39:05,270 --> 00:39:02,960

partnership is here we are on on the

1039
00:39:07,670 --> 00:39:05,280
first operational mission of of a

1040
00:39:10,069 --> 00:39:07,680
commercial crew vehicle and japan is

1041
00:39:11,670 --> 00:39:10,079
with us really on day one

1042
00:39:13,430 --> 00:39:11,680
japan is with us with us on the

1043
00:39:15,910 --> 00:39:13,440
international space station we're

1044
00:39:17,589 --> 00:39:15,920
looking at the enthusiasm in japan for

1045
00:39:20,310 --> 00:39:17,599
the artemis program

1046
00:39:21,990 --> 00:39:20,320
um and and and the the the budget that

1047
00:39:24,069 --> 00:39:22,000
japan is seeking

1048
00:39:26,950 --> 00:39:24,079
um to achieve

1049
00:39:29,349 --> 00:39:26,960
uh humans landing on the moon uh for the

1050
00:39:31,349 --> 00:39:29,359
first time since 1972 and knowing that

1051
00:39:32,630 --> 00:39:31,359
japan wants to be with us on the artemis

1052
00:39:35,030 --> 00:39:32,640
program

1053
00:39:36,710 --> 00:39:35,040
and committing themselves not just to

1054
00:39:38,870 --> 00:39:36,720
the effort but backing it up with

1055
00:39:40,630 --> 00:39:38,880
financial resources

1056
00:39:42,470 --> 00:39:40,640
japan is an amazing partner and we're

1057
00:39:44,790 --> 00:39:42,480
very very grateful for

1058
00:39:46,390 --> 00:39:44,800
for the nation of japan and

1059
00:39:48,150 --> 00:39:46,400
and i look forward to all the amazing

1060
00:39:49,829 --> 00:39:48,160
things that suichi naguchi is going to

1061
00:39:52,230 --> 00:39:49,839
do on the international space station

1062
00:39:54,390 --> 00:39:52,240
over the coming six months uh so he is

1063
00:39:56,950 --> 00:39:54,400

uh he is a special individual

1064
00:39:59,349 --> 00:39:56,960
and uh and we look forward to a long and

1065
00:40:03,829 --> 00:39:59,359
strong partnership with japan as we

1066
00:40:03,839 --> 00:40:07,589
this will be on last question

1067
00:40:10,710 --> 00:40:09,270
administrator david curley from

1068
00:40:13,510 --> 00:40:10,720
discovery channel

1069
00:40:15,510 --> 00:40:13,520
about elon musk and the possibility that

1070
00:40:16,390 --> 00:40:15,520
uh he's not feeling good and could be

1071
00:40:18,230 --> 00:40:16,400
ill

1072
00:40:20,870 --> 00:40:18,240
i know the crew is in quarantine has he

1073
00:40:22,150 --> 00:40:20,880
had any contact with the crew or others

1074
00:40:23,910 --> 00:40:22,160
trainers or others who've been in

1075
00:40:26,230 --> 00:40:23,920
contact with the crew have you been able

1076
00:40:28,710 --> 00:40:26,240
to contact trace all that and if not is

1077
00:40:30,470 --> 00:40:28,720
there a chance that if he is ill you

1078
00:40:32,950 --> 00:40:30,480
might have to delay

1079
00:40:35,829 --> 00:40:32,960
so as far as any contact with the crew i

1080
00:40:39,589 --> 00:40:35,839
am unaware of it uh that contact tracing

1081
00:40:41,430 --> 00:40:39,599
should be underway right now and and and

1082
00:40:43,190 --> 00:40:41,440
of course nasa and spacex are going to

1083
00:40:44,710 --> 00:40:43,200
work through it together

1084
00:40:46,390 --> 00:40:44,720
and come to the right the right

1085
00:40:48,870 --> 00:40:46,400
conclusion

1086
00:40:50,790 --> 00:40:48,880
but look this news just broke before

1087
00:40:52,309 --> 00:40:50,800
this press conference so

1088
00:40:53,910 --> 00:40:52,319

look if there are adjustments that need

1089
00:40:56,230 --> 00:40:53,920
to be made we will make them i will tell

1090
00:40:59,030 --> 00:40:56,240
you our astronauts

1091
00:41:00,710 --> 00:40:59,040
have been in quarantine for weeks

1092
00:41:02,230 --> 00:41:00,720
and they should not have had contact

1093
00:41:04,230 --> 00:41:02,240
with anybody

1094
00:41:06,150 --> 00:41:04,240
they they should have they should be in

1095
00:41:07,750 --> 00:41:06,160
good shape all right there is a chance

1096
00:41:09,829 --> 00:41:07,760
you could delay

1097
00:41:12,150 --> 00:41:09,839
if there is a contact trace that gets

1098
00:41:13,990 --> 00:41:12,160
back to the crew i don't know that i

1099
00:41:16,150 --> 00:41:14,000
don't i don't i i'm not going to say

1100
00:41:18,829 --> 00:41:16,160
that um

1101
00:41:21,270 --> 00:41:18,839
there's a lot to learn thank

1102
00:41:23,190 --> 00:41:21,280
you you so much we'll close out the

1103
00:41:27,109 --> 00:41:23,200
press conference with final remarks from

1104
00:41:32,150 --> 00:41:29,030
well i just want to thank everybody for

1105
00:41:34,710 --> 00:41:32,160
once again coming to a launch uh this

1106
00:41:36,150 --> 00:41:34,720
time uh really the first time we go with

1107
00:41:38,309 --> 00:41:36,160
a crew of four to the international

1108
00:41:39,270 --> 00:41:38,319
space station on a commercial crew

1109
00:41:40,950 --> 00:41:39,280
vehicle

1110
00:41:43,270 --> 00:41:40,960
it's the first time we go with one of

1111
00:41:45,349 --> 00:41:43,280
our international partners japan and we

1112
00:41:48,230 --> 00:41:45,359
are so very grateful for the amazing

1113
00:41:49,910 --> 00:41:48,240

partnership that we have with japan and

1114
00:41:52,870 --> 00:41:49,920
it's the first time we go as a

1115
00:41:53,670 --> 00:41:52,880
commercial vehicle licensed

1116
00:41:58,710 --> 00:41:53,680
with

1117
00:41:59,750 --> 00:41:58,720
the faa so there's a lot of firsts on

1118
00:42:01,349 --> 00:41:59,760
this flight

1119
00:42:03,190 --> 00:42:01,359
a lot of amazing discoveries that are

1120
00:42:05,510 --> 00:42:03,200
going to happen by these four amazing

1121
00:42:07,670 --> 00:42:05,520
astronauts over the next

1122
00:42:09,990 --> 00:42:07,680
uh six months so

1123
00:42:11,270 --> 00:42:10,000
it's a great time to be at nasa and it's

1124
00:42:13,750 --> 00:42:11,280
a great time

1125
00:42:15,190 --> 00:42:13,760
if you're an enthusiast of space

1126
00:42:17,109 --> 00:42:15,200
exploration

1127
00:42:18,790 --> 00:42:17,119
boiled there's a lot happening now not

1128
00:42:20,390 --> 00:42:18,800
just in low earth orbit

1129
00:42:22,150 --> 00:42:20,400
but with the artemis program and all the

1130
00:42:23,270 --> 00:42:22,160
way to the moon so thank you all for

1131
00:42:25,270 --> 00:42:23,280
being in attendance and we'll look

1132
00:42:55,820 --> 00:42:25,280
forward to a great launch tomorrow thank