



1  
00:00:35,760 --> 00:00:33,110  
[Music]

2  
00:01:03,160 --> 00:00:35,770  
t-minus one minute

3  
00:01:18,800 --> 00:01:03,170  
[Music]

4  
00:01:33,370 --> 00:01:18,810  
we are go for launch

5  
00:01:37,690 --> 00:01:35,590  
welcome back to the NASA social for the

6  
00:02:11,050 --> 00:01:37,700  
crew dragon mission as we prepare to

7  
00:02:11,060 --> 00:02:20,310  
[Music]

8  
00:02:25,720 --> 00:02:23,350  
welcome back one final time to this NASA

9  
00:02:27,520 --> 00:02:25,730  
social I'm Joshua Santora when that's a

10  
00:02:30,040 --> 00:02:27,530  
communication and so glad that you're

11  
00:02:31,630 --> 00:02:30,050  
riding along with us super excited that

12  
00:02:34,540 --> 00:02:31,640  
we are now about six and a half hours

13  
00:02:35,800 --> 00:02:34,550

from liftoff of the demo2 mission this

14

00:02:39,040 --> 00:02:35,810

is a Commercial Crew program mission

15

00:02:41,020 --> 00:02:39,050

with NASA working alongside SpaceX to

16

00:02:42,610 --> 00:02:41,030

fly astronauts Bob Behnken and Doug

17

00:02:44,200 --> 00:02:42,620

Hurley to the International Space

18

00:02:47,830 --> 00:02:44,210

Station this would be the first time

19

00:02:49,900 --> 00:02:47,840

we're gonna fly crews from America on

20

00:02:51,910 --> 00:02:49,910

American spacecraft since this beautiful

21

00:02:53,770 --> 00:02:51,920

lady flew almost nine years ago this is

22

00:02:55,960 --> 00:02:53,780

space shuttle Atlantis huge thanks to

23

00:02:57,520 --> 00:02:55,970

our hosts this week the Kennedy Space

24

00:02:58,690 --> 00:02:57,530

Center Visitor Complex who have been

25

00:03:00,910 --> 00:02:58,700

just so gracious and letting us be here

26

00:03:02,380 --> 00:03:00,920

and I'm joined now also by Madison

27

00:03:03,880 --> 00:03:02,390

Tuttle thanks Joshua

28

00:03:05,740 --> 00:03:03,890

yeah I'm Madison Tuttle and I am the

29

00:03:07,810 --> 00:03:05,750

social media lead here at Kennedy Space

30

00:03:09,880 --> 00:03:07,820

Center I just want to remind everyone

31

00:03:11,740 --> 00:03:09,890

while you're watching this segment you

32

00:03:14,380 --> 00:03:11,750

can leave us questions either in the

33

00:03:16,780 --> 00:03:14,390

chat on youtube or in the NASA social

34

00:03:18,910 --> 00:03:16,790

Facebook group so today we're gonna take

35

00:03:21,010 --> 00:03:18,920

you on a tour of some of the Kennedy

36

00:03:22,960 --> 00:03:21,020

Space Center Visitor Complex usually

37

00:03:24,850 --> 00:03:22,970

when we have a NASA social hosted here

38

00:03:26,320 --> 00:03:24,860

at Kennedy Space Center our friends at

39

00:03:28,600 --> 00:03:26,330

the Visitor Complex would give all of

40

00:03:30,430 --> 00:03:28,610

the participants a complimentary ticket

41

00:03:32,340 --> 00:03:30,440

so we want to make sure that y'all get a

42

00:03:34,510 --> 00:03:32,350

chance to experience the Visitor Complex

43

00:03:36,310 --> 00:03:34,520

yeah hoping that this kind of wets your

44

00:03:37,630 --> 00:03:36,320

appetite to come and see this whether it

45

00:03:40,420 --> 00:03:37,640

be on your own or as part of a NASA

46

00:03:43,900 --> 00:03:40,430

social it is a phenomenal facility and

47

00:03:46,090 --> 00:03:43,910

just complex and it's just it's it's

48

00:03:48,340 --> 00:03:46,100

amazing and we want to show you a piece

49

00:03:50,020 --> 00:03:48,350

of it now a couple pieces of it now this

50

00:03:52,780 --> 00:03:50,030

is actually highlighting the Rocket

51  
00:03:57,110 --> 00:03:52,790  
Garden here and also the Saturn 5 Center

52  
00:04:01,320 --> 00:03:59,910  
hi everyone we're at the front gate of

53  
00:04:03,870 --> 00:04:01,330  
the Kennedy Space Center Visitor Complex

54  
00:04:06,660 --> 00:04:03,880  
now this place is huge

55  
00:04:08,610 --> 00:04:06,670  
70 acres so I brought my skateboard and

56  
00:04:10,590 --> 00:04:08,620  
I asked him if we could hit all the

57  
00:04:11,340 --> 00:04:10,600  
highlights by riding around him they

58  
00:04:20,580 --> 00:04:11,350  
said yes

59  
00:04:25,779 --> 00:04:23,140  
every single rocket here rocket garden

60  
00:04:27,249 --> 00:04:25,789  
feel with the exception of one we're

61  
00:04:29,559 --> 00:04:27,259  
gonna take a look at for the

62  
00:04:33,850 --> 00:04:29,569  
mercury-redstone the mercury Atlas Juno

63  
00:04:35,830 --> 00:04:33,860

one and the Saturn 1b first the Juno one

64

00:04:38,469 --> 00:04:35,840

rocket which was a huge success this

65

00:04:44,549 --> 00:04:38,479

launched America's first satellite in

66

00:04:48,959 --> 00:04:46,169

this rocket right here the

67

00:04:51,419 --> 00:04:48,969

mercury-redstone the first living thing

68

00:04:53,999 --> 00:04:51,429

that went up was actually not a human it

69

00:04:56,789 --> 00:04:54,009

was a chimpanzee named Pam it was a

70

00:04:58,919 --> 00:04:56,799

successful flight and so Alan Shepard

71

00:05:04,570 --> 00:04:58,929

became the first American astronaut to

72

00:05:20,559 --> 00:05:17,320

[Music]

73

00:05:21,189 --> 00:05:20,569

boy it is tight in there friendship

74

00:05:25,390 --> 00:05:21,199

seven

75

00:05:28,659 --> 00:05:25,400

it's what John Glenn got out of when he

76  
00:05:31,119 --> 00:05:28,669  
launched aboard the mercury Atlas rocket

77  
00:05:33,429 --> 00:05:31,129  
now this was important because this was

78  
00:05:36,309 --> 00:05:33,439  
the first time in American orbited the

79  
00:05:39,279 --> 00:05:36,319  
earth and he did so three times and the

80  
00:05:42,230 --> 00:05:39,289  
mission lasted three hours and 55

81  
00:05:51,050 --> 00:05:48,140  
[Music]

82  
00:05:53,000 --> 00:05:51,060  
does the only Saturn won't be left in

83  
00:05:54,710 --> 00:05:53,010  
the entire world it's here at the

84  
00:05:57,439 --> 00:05:54,720  
Kennedy Space Center Visitor Complex on

85  
00:06:00,800 --> 00:05:57,449  
inside for display and here's the cool

86  
00:06:03,260 --> 00:06:00,810  
thing about this rocket which is 22

87  
00:06:05,000 --> 00:06:03,270  
stories tall when it's upright is the

88  
00:06:07,520 --> 00:06:05,010

one that they use to test out the

89  
00:06:10,460 --> 00:06:07,530  
command module and the service module -

90  
00:06:14,790 --> 00:06:10,470  
Apollo before we put astronauts on board

91  
00:06:24,540 --> 00:06:22,379  
[Music]

92  
00:06:26,459 --> 00:06:24,550  
to check out the other Rockets here in

93  
00:06:28,499 --> 00:06:26,469  
the rocket garden make sure you stop by

94  
00:06:30,059 --> 00:06:28,509  
and take one of the daily walking tours

95  
00:06:39,350 --> 00:06:30,069  
that they have here at the Visitor

96  
00:06:44,779 --> 00:06:41,180  
well if you thought the Saturn 1b was

97  
00:06:47,420 --> 00:06:44,789  
big check out this monster this is the

98  
00:06:48,890 --> 00:06:47,430  
mighty Saturn 5 rocket inside the Apollo

99  
00:06:52,159 --> 00:06:48,900  
Saturn v center here

100  
00:06:54,350 --> 00:06:52,169  
it's 363 feet long and you can see it's

101  
00:06:57,170 --> 00:06:54,360  
lifted off the ground so you can walk

102  
00:06:59,659 --> 00:06:57,180  
underneath it now this was important to

103  
00:07:01,700 --> 00:06:59,669  
the Apollo moon program because it is

104  
00:07:03,589 --> 00:07:01,710  
what got us to the moon so astronauts

105  
00:07:04,520 --> 00:07:03,599  
could walk on the moon for the very

106  
00:07:07,040 --> 00:07:04,530  
first time

107  
00:07:09,589 --> 00:07:07,050  
now those f-1 engines they were

108  
00:07:11,480 --> 00:07:09,599  
incredibly powerful responsible for

109  
00:07:13,760 --> 00:07:11,490  
seven and a half million pounds of

110  
00:07:16,219 --> 00:07:13,770  
thrust which could lift a hundred and

111  
00:07:20,089 --> 00:07:16,229  
thirty tons off the earth that's the

112  
00:07:22,640 --> 00:07:20,099  
equivalent of 10 school buses at 42

113  
00:07:25,010 --> 00:07:22,650

miles up the first stage would then be

114

00:07:27,350 --> 00:07:25,020

jettisoned off of the rocket and we

115

00:07:29,899 --> 00:07:27,360

would start with the second stage it's

116

00:07:32,059 --> 00:07:29,909

five engines would fire and then take

117

00:07:34,369 --> 00:07:32,069

the rocket up for another bit of the way

118

00:07:37,459 --> 00:07:34,379

now the first stage was Genesis because

119

00:07:39,170 --> 00:07:37,469

as the rocket is flying it needs to lose

120

00:07:42,439 --> 00:07:39,180

the weight of the part it no longer

121

00:07:45,499 --> 00:07:42,449

needs then the second stage would cruise

122

00:07:47,510 --> 00:07:45,509

up to about nine minutes into flight so

123

00:07:49,969 --> 00:07:47,520

nine minutes into flight that second

124

00:07:51,559 --> 00:07:49,979

stage was out of here and it was on to

125

00:07:53,990 --> 00:07:51,569

the third stage now this stage is pretty

126  
00:07:56,540 --> 00:07:54,000  
cool because it would actually push the

127  
00:07:58,999 --> 00:07:56,550  
astronauts into Earth's orbit and then

128  
00:08:01,790 --> 00:07:59,009  
turn off it would then relight several

129  
00:08:03,040 --> 00:08:01,800  
hours later and push everything to the

130  
00:08:05,300 --> 00:08:03,050  
moon

131  
00:08:07,159 --> 00:08:05,310  
once they traveled two hundred and

132  
00:08:10,189 --> 00:08:07,169  
thirty eight thousand miles to the moon

133  
00:08:14,370 --> 00:08:10,199  
third stage was gone and then the moon

134  
00:08:16,350 --> 00:08:14,380  
landing Portugal Armstrong in 1969

135  
00:08:18,270 --> 00:08:16,360  
now if you want to scale this stuff you

136  
00:08:22,440 --> 00:08:18,280  
can check it out at the Apollo Saturn 5

137  
00:08:22,450 --> 00:08:39,120  
[Music]

138  
00:08:43,469 --> 00:08:41,760

that's gonna do it for our tour there's

139

00:08:46,080 --> 00:08:43,479

so much more to see here so make sure

140

00:08:48,960 --> 00:08:46,090

you come down and visit us we'll be here

141

00:08:50,390 --> 00:08:48,970

waiting for you until then keep looking

142

00:09:04,750 --> 00:08:50,400

up

143

00:09:08,650 --> 00:09:06,730

a big thanks to our friend and colleague

144

00:09:08,920 --> 00:09:08,660

Darryl nail for putting it together for

145

00:09:10,870 --> 00:09:08,930

us

146

00:09:13,030 --> 00:09:10,880

he actually you'll catch him on the live

147

00:09:15,310 --> 00:09:13,040

broadcast for the launch today starting

148

00:09:18,580 --> 00:09:15,320

at 12:15 Eastern Time you can go watch

149

00:09:21,070 --> 00:09:18,590

that on NASA TV or nasa.gov slash live

150

00:09:23,590 --> 00:09:21,080

again kicking off at 12:15 Eastern for a

151  
00:09:26,350 --> 00:09:23,600  
4:30 3 p.m. Eastern Time targeted

152  
00:09:27,820 --> 00:09:26,360  
liftoff it is an instantaneous window so

153  
00:09:30,250 --> 00:09:27,830  
we know that if it doesn't happen then

154  
00:09:32,530 --> 00:09:30,260  
it'll be another day right now we're

155  
00:09:34,120 --> 00:09:32,540  
joined by the chief operating officer of

156  
00:09:36,280 --> 00:09:34,130  
the Visitor Complex there in place

157  
00:09:37,840 --> 00:09:36,290  
thanks for joining us happy to be here

158  
00:09:39,340 --> 00:09:37,850  
Thank You Joshua can you tell us a

159  
00:09:41,530 --> 00:09:39,350  
little bit about what you do here and

160  
00:09:42,640 --> 00:09:41,540  
kind of your background and what you

161  
00:09:45,430 --> 00:09:42,650  
guys are up to here at the Visitor

162  
00:09:48,370 --> 00:09:45,440  
Complex there's so much I'm chief

163  
00:09:50,650 --> 00:09:48,380

operating officer we're contracted by

164

00:09:53,560 --> 00:09:50,660

NASA my companies Delaware North arrived

165

00:09:55,510 --> 00:09:53,570

here in 2014 and right now I mean our

166

00:09:57,250 --> 00:09:55,520

goal is to tell the NASA story and to

167

00:09:59,740 --> 00:09:57,260

create a memorable space experience so

168

00:10:01,510 --> 00:09:59,750

it is about experiences you know we we

169

00:10:03,580 --> 00:10:01,520

tend to look at ourselves is just

170

00:10:05,080 --> 00:10:03,590

inspiring that next generation showing

171

00:10:07,150 --> 00:10:05,090

what's going on with NASA happened in

172

00:10:09,910 --> 00:10:07,160

the past and honoring that but really

173

00:10:12,280 --> 00:10:09,920

showing about the exciting future and in

174

00:10:14,530 --> 00:10:12,290

exciting people about what's happening

175

00:10:16,720 --> 00:10:14,540

next in our future generations yeah very

176

00:10:18,490 --> 00:10:16,730

cool as part of NASA is charged as part

177

00:10:20,220 --> 00:10:18,500

of our mission we are responsible for

178

00:10:22,570 --> 00:10:20,230

telling the world about what we do and

179

00:10:23,500 --> 00:10:22,580

you guys are a part of that we're so

180

00:10:25,330 --> 00:10:23,510

we're essentially on the same team

181

00:10:27,160 --> 00:10:25,340

Sharon and I we don't work together on

182

00:10:28,240 --> 00:10:27,170

the regular basis but we have the same

183

00:10:30,400 --> 00:10:28,250

goal and we're about doing the same

184

00:10:31,600 --> 00:10:30,410

thing of helping to tell the story fair

185

00:10:33,760 --> 00:10:31,610

and just gets to do it with really cool

186

00:10:35,920 --> 00:10:33,770

things like space shuttles and I get to

187

00:10:37,450 --> 00:10:35,930

do it with things like a live video so I

188

00:10:39,130 --> 00:10:37,460

want to ask you because we had a

189

00:10:40,480 --> 00:10:39,140

question come in actually there was a

190

00:10:42,190 --> 00:10:40,490

question online about what's behind that

191

00:10:44,260 --> 00:10:42,200

wall in the rocket garden so you saw

192

00:10:46,510 --> 00:10:44,270

Daryl they're beautiful rockets that are

193

00:10:48,280 --> 00:10:46,520

amazing to see in person and a wall I'm

194

00:10:51,610 --> 00:10:48,290

a serious wall so what's happening today

195

00:10:52,810 --> 00:10:51,620

out here the mysterious wall so you know

196

00:10:54,820 --> 00:10:52,820

the one thing about the Visitor Complex

197

00:10:58,180 --> 00:10:54,830

is always changing so we're constantly

198

00:11:00,190 --> 00:10:58,190

updating constantly evolving to the next

199

00:11:02,140 --> 00:11:00,200

story so behind that wall is really

200

00:11:04,150 --> 00:11:02,150

going to be an amazing exhibit right now

201  
00:11:07,090 --> 00:11:04,160  
the placeholders we're calling a gateway

202  
00:11:09,180 --> 00:11:07,100  
and inside that huge complex can be

203  
00:11:11,020 --> 00:11:09,190  
about forty six thousand square feet a

204  
00:11:12,400 --> 00:11:11,030  
2-story it's going to have a launch

205  
00:11:15,280 --> 00:11:12,410  
viewing deck it's gonna have a turbot

206  
00:11:18,070 --> 00:11:15,290  
Observatory on top but inside that is

207  
00:11:18,489 --> 00:11:18,080  
going to be just amazing pieces of the

208  
00:11:21,669 --> 00:11:18,499  
new and

209  
00:11:23,859 --> 00:11:21,679  
of NASA so one is a falcon 9 heavy

210  
00:11:25,599 --> 00:11:23,869  
rocket booster working with Sierra

211  
00:11:29,499 --> 00:11:25,609  
Nevada making sure we have a you know a

212  
00:11:31,419 --> 00:11:29,509  
full-size a dream chaser plus everything

213  
00:11:33,849 --> 00:11:31,429

that's going on within NASA and then on

214

00:11:35,919 --> 00:11:33,859

top we're actually gonna utilize and

215

00:11:38,199 --> 00:11:35,929

create a space for the 2050s where we're

216

00:11:40,239 --> 00:11:38,209

going to take guests and show them in a

217

00:11:42,699 --> 00:11:40,249

very unique I'm just gonna say unique

218

00:11:45,789 --> 00:11:42,709

experience about what NASA is doing out

219

00:11:48,389 --> 00:11:45,799

in deep space and and beyond so it's

220

00:11:50,919 --> 00:11:48,399

it's going to be a great storytelling

221

00:11:53,289 --> 00:11:50,929

application and an experience for our

222

00:11:56,889 --> 00:11:53,299

guests coming hopefully in late 2021

223

00:11:59,499 --> 00:11:56,899

cool any more social questions we have

224

00:12:01,749 --> 00:11:59,509

another question from social why is it

225

00:12:05,349 --> 00:12:01,759

so important to educate the public about

226

00:12:07,059 --> 00:12:05,359

NASA's mission well you know a lot of

227

00:12:08,949 --> 00:12:07,069

people always ask the question what's

228

00:12:11,469 --> 00:12:08,959

going on with space so you know it is

229

00:12:13,779 --> 00:12:11,479

there's so much the good that comes from

230

00:12:16,059 --> 00:12:13,789

exploration not only of our own planet

231

00:12:17,739 --> 00:12:16,069

but what's next for us possibly living

232

00:12:19,779 --> 00:12:17,749

on another planet sometime in the future

233

00:12:22,089 --> 00:12:19,789

so you know learning about that

234

00:12:23,829 --> 00:12:22,099

educating the guests really shows all

235

00:12:26,319 --> 00:12:23,839

the work the NASA Commercial Crew and

236

00:12:29,259 --> 00:12:26,329

all the contractors are doing to really

237

00:12:31,659 --> 00:12:29,269

improve our own world here on earth as

238

00:12:33,309 --> 00:12:31,669

well as search for new ideas and new

239

00:12:36,359 --> 00:12:33,319

exploration that will also help earth

240

00:12:39,129 --> 00:12:36,369

and then possibly make make us a

241

00:12:40,509 --> 00:12:39,139

happening of a future planet yeah you

242

00:12:42,339 --> 00:12:40,519

kind of gave us that tease there of this

243

00:12:44,710 --> 00:12:42,349

new facility you're working on and kind

244

00:12:46,449 --> 00:12:44,720

of mention living on other planets so

245

00:12:47,799 --> 00:12:46,459

I'm hoping I don't know I'm hoping I

246

00:12:49,389 --> 00:12:47,809

know you probably can't say too much at

247

00:12:50,319 --> 00:12:49,399

this point but hoping that that's part

248

00:12:53,409 --> 00:12:50,329

of this a new exhibit where we

249

00:12:55,989 --> 00:12:53,419

experience future the space the space of

250

00:12:57,699 --> 00:12:55,999

the future yeah absolutely and there's I

251  
00:13:00,309 --> 00:12:57,709  
mean you know we don't have time to go

252  
00:13:01,689 --> 00:13:00,319  
through the whole plan we have something

253  
00:13:04,239 --> 00:13:01,699  
we're calling the next big thing which

254  
00:13:06,849 --> 00:13:04,249  
is what happens after that next exhibit

255  
00:13:08,799 --> 00:13:06,859  
opens up so that will truly be telling

256  
00:13:11,229 --> 00:13:08,809  
the future space and right here the

257  
00:13:14,529 --> 00:13:11,239  
Bismarck complex we have a life-size

258  
00:13:15,909 --> 00:13:14,539  
actual Mars concept rover to inspire

259  
00:13:18,189 --> 00:13:15,919  
those kids so they can actually when

260  
00:13:20,379 --> 00:13:18,199  
they see this thing it has an off factor

261  
00:13:23,349 --> 00:13:20,389  
that hopefully really says I want to be

262  
00:13:25,809 --> 00:13:23,359  
part of the space industry cool yeah we

263  
00:13:27,129 --> 00:13:25,819

have one more question from social when

264

00:13:27,530 --> 00:13:27,139

are you going to be reopening to the

265

00:13:29,629 --> 00:13:27,540

public

266

00:13:31,879 --> 00:13:29,639

so that's a great question so we're

267

00:13:33,560 --> 00:13:31,889

actually opening tomorrow 10:00 to 4:00

268

00:13:36,259 --> 00:13:33,570

those are we're in a limited capacity

269

00:13:40,129 --> 00:13:36,269

with limited hours but we did reduce the

270

00:13:42,350 --> 00:13:40,139

price it is \$29 \$29.99 to to come on in

271

00:13:43,879 --> 00:13:42,360

\$24.99 for kids we also have walking

272

00:13:46,780 --> 00:13:43,889

tours if you want to walk around with a

273

00:13:48,949 --> 00:13:46,790

space expert so you know right now it's

274

00:13:51,470 --> 00:13:48,959

reservations you can't come up and get a

275

00:13:53,240 --> 00:13:51,480

ticket but we're really excited to open

276  
00:13:56,059 --> 00:13:53,250  
right after we launch America I mean how

277  
00:13:57,350 --> 00:13:56,069  
cool is that so we're really hoping that

278  
00:13:58,759 --> 00:13:57,360  
guests will want to come out and see

279  
00:14:00,710 --> 00:13:58,769  
what's going on here at the Visitor

280  
00:14:03,759 --> 00:14:00,720  
Complex and learn about the history in

281  
00:14:06,530 --> 00:14:03,769  
the future yeah super excited obviously

282  
00:14:07,999 --> 00:14:06,540  
being being safe making sure that we're

283  
00:14:10,460 --> 00:14:08,009  
taking care of people's health so

284  
00:14:12,110 --> 00:14:10,470  
appreciate you guys doing that I want to

285  
00:14:14,240 --> 00:14:12,120  
go ahead actually enroll into another

286  
00:14:16,460 --> 00:14:14,250  
video we have put together this facility

287  
00:14:17,840 --> 00:14:16,470  
has a lot more than just Atlantis so we

288  
00:14:20,210 --> 00:14:17,850

wanted to give you a little bit of a

289

00:14:21,800 --> 00:14:20,220

flavor of what else is in here there's

290

00:14:24,620 --> 00:14:21,810

so much more than we could show you in

291

00:14:26,720 --> 00:14:24,630

just a minute clip but we did want to

292

00:14:28,579 --> 00:14:26,730

give you a taste and also lets you know

293

00:14:31,340 --> 00:14:28,589

that as we were designing and developing

294

00:14:32,780 --> 00:14:31,350

this facility the heart behind the

295

00:14:35,480 --> 00:14:32,790

decisions that were made were about

296

00:14:37,610 --> 00:14:35,490

giving people unprecedented access to

297

00:14:39,740 --> 00:14:37,620

see the space shuttle program so not

298

00:14:41,059 --> 00:14:39,750

only can you see physically this orbiter

299

00:14:43,069 --> 00:14:41,069

in ways that nobody ever could before

300

00:14:45,230 --> 00:14:43,079

but you also get to see and hear the

301  
00:14:47,809 --> 00:14:45,240  
stories of the people who made it a

302  
00:14:50,480 --> 00:14:47,819  
reality and so much more of what

303  
00:14:51,949 --> 00:14:50,490  
Atlantis enabled from the space station

304  
00:15:35,309 --> 00:14:51,959  
to the Hubble telescope and beyond

305  
00:15:43,420 --> 00:15:40,569  
we move inside now to show off this this

306  
00:15:46,660 --> 00:15:43,430  
is it the literal Space Shuttle inside

307  
00:15:49,470 --> 00:15:46,670  
of the 64,000 square foot 10 story

308  
00:15:51,999 --> 00:15:49,480  
facility that was built specifically

309  
00:15:54,670 --> 00:15:52,009  
this space shuttle now it's been

310  
00:15:56,530 --> 00:15:54,680  
positioned perfectly so that you can see

311  
00:15:58,720 --> 00:15:56,540  
the inside of the cargo bay you see how

312  
00:16:02,259 --> 00:15:58,730  
it's open there and it's also been

313  
00:16:05,079 --> 00:16:02,269

tilted at an angle of 40 3.21 degrees

314

00:16:08,490 --> 00:16:05,089

which is just like the countdown four

315

00:16:11,379 --> 00:16:08,500

three two and one

316

00:16:14,230 --> 00:16:11,389

this is my favorite angle here with the

317

00:16:17,199 --> 00:16:14,240

robotic arm coming at you from Canada of

318

00:16:18,519 --> 00:16:17,209

course as it goes over the walkway when

319

00:16:20,710 --> 00:16:18,529

you walk through here you can see

320

00:16:22,870 --> 00:16:20,720

straight into the cargo bay which shows

321

00:16:24,910 --> 00:16:22,880

you where the action was this is what

322

00:16:27,189 --> 00:16:24,920

helped build the International Space

323

00:16:29,740 --> 00:16:27,199

Station taking segments up into

324

00:16:32,019 --> 00:16:29,750

low-earth orbit it also put the Hubble

325

00:16:33,639 --> 00:16:32,029

Space Telescope into space

326

00:16:36,069 --> 00:16:33,649

pulling it out of the cargo bay with the

327

00:16:40,720 --> 00:16:36,079

robotic arm space shuttle atlantis

328

00:16:44,559 --> 00:16:40,730

served well over 33 missions in 26 years

329

00:16:46,809 --> 00:16:44,569

and atlantis was finally retired in 2011

330

00:16:49,179 --> 00:16:46,819

and brought here to show the entire

331

00:16:53,170 --> 00:16:49,189

world what an incredible machine it is

332

00:16:56,199 --> 00:16:53,180

it was launched like a rocket lie like a

333

00:16:59,590 --> 00:16:56,209

spacecraft and it would land like a

334

00:17:01,780 --> 00:16:59,600

glider at 22 degrees inclination which

335

00:17:07,120 --> 00:17:01,790

is the same as this slide and it would

336

00:17:09,010 --> 00:17:07,130

travel 17,000 miles per hour building up

337

00:17:11,020 --> 00:17:09,020

some heat which I actually felt some

338

00:17:13,870 --> 00:17:11,030

heat coming down this slide if heated

339

00:17:16,449 --> 00:17:13,880

the Space Shuttle though that was 3,000

340

00:17:18,850 --> 00:17:16,459

degrees until it finally came to a real

341

00:17:21,280 --> 00:17:18,860

stop on the Shuttle Landing Facility

342

00:17:25,250 --> 00:17:21,290

runway

343

00:17:35,330 --> 00:17:32,990

in history this mini mock-up and I want

344

00:17:37,390 --> 00:17:35,340

to emphasize many of the International

345

00:17:39,980 --> 00:17:37,400

Space Station kind of shows you the

346

00:17:43,310 --> 00:17:39,990

contribution that Space Shuttle made to

347

00:17:45,169 --> 00:17:43,320

building this in modules you can see the

348

00:17:47,539 --> 00:17:45,179

nodes they had to come together and this

349

00:17:49,580 --> 00:17:47,549

kind of represents exactly how that

350

00:17:50,960 --> 00:17:49,590

worked the International Space Station

351  
00:17:53,090 --> 00:17:50,970  
is huge

352  
00:17:56,900 --> 00:17:53,100  
imagine all the work that they took it's

353  
00:18:01,370 --> 00:17:56,910  
a football field sized in length it

354  
00:18:03,710 --> 00:18:01,380  
weighs an incredible 400 tons but the

355  
00:18:05,510 --> 00:18:03,720  
science that has gone on board the

356  
00:18:12,110 --> 00:18:05,520  
International Space Station has

357  
00:18:13,880 --> 00:18:12,120  
benefited all of humanity in the

358  
00:18:16,250 --> 00:18:13,890  
American space program because it was

359  
00:18:18,049 --> 00:18:16,260  
the last time the American astronauts

360  
00:18:20,840 --> 00:18:18,059  
flew from American soil

361  
00:18:22,610 --> 00:18:20,850  
into space but now there's a new era of

362  
00:18:25,669 --> 00:18:22,620  
space flight with commercial companies

363  
00:18:28,940 --> 00:18:25,679

that are flying new spacecraft and new

364

00:18:59,840 --> 00:18:28,950

rockets to return American capability to

365

00:19:02,850 --> 00:19:01,770

hopefully that wets your appetite a

366

00:19:04,260 --> 00:19:02,860

little bit to come out here and check it

367

00:19:05,610 --> 00:19:04,270

out but if you're going to it's there

368

00:19:06,720 --> 00:19:05,620

and I think you told me that there was

369

00:19:08,670 --> 00:19:06,730

one other thing that people should know

370

00:19:10,560 --> 00:19:08,680

before they make their way out here yeah

371

00:19:13,200 --> 00:19:10,570

make sure you check the our website and

372

00:19:14,850 --> 00:19:13,210

you know we will have restrictions to

373

00:19:18,060 --> 00:19:14,860

make sure our guests and our associates

374

00:19:19,380 --> 00:19:18,070

stay safe so there's a full list of

375

00:19:21,060 --> 00:19:19,390

requirements so just please check that

376

00:19:23,610 --> 00:19:21,070

out before you come cool yeah make sense

377

00:19:25,080 --> 00:19:23,620

yep we have another question from social

378

00:19:27,510 --> 00:19:25,090

that's the last one

379

00:19:32,310 --> 00:19:27,520

but how did you end up here at the

380

00:19:33,780 --> 00:19:32,320

Visitor Complex was luck a little bit

381

00:19:35,610 --> 00:19:33,790

I'm sure well I've always been a space

382

00:19:38,310 --> 00:19:35,620

geek I've been the hospitality I was

383

00:19:39,990 --> 00:19:38,320

actually an analyst by trade and my

384

00:19:41,820 --> 00:19:40,000

company Delaware North offered me to

385

00:19:44,100 --> 00:19:41,830

come here and you know a background

386

00:19:46,710 --> 00:19:44,110

story of why I was so exciting to work

387

00:19:48,480 --> 00:19:46,720

for NASA as my mom grew up in Bluefield

388

00:19:50,670 --> 00:19:48,490

West Virginia and had ties to Homer

389

00:19:52,260 --> 00:19:50,680

Hickam so I learned a lot about the

390

00:19:53,970 --> 00:19:52,270

rocket industry growing up as a kid

391

00:19:56,880 --> 00:19:53,980

heard all about it made rocket models

392

00:20:00,090 --> 00:19:56,890

and launched them and when I got the

393

00:20:01,590 --> 00:20:00,100

chance to come here just dived at it so

394

00:20:04,170 --> 00:20:01,600

it's just very exciting to actually be

395

00:20:05,400 --> 00:20:04,180

part of the amazing space industry yeah

396

00:20:07,650 --> 00:20:05,410

if you don't know Homer Hickam story

397

00:20:09,780 --> 00:20:07,660

check that out just search for that it's

398

00:20:11,910 --> 00:20:09,790

it's a fascinating just amazing story of

399

00:20:15,270 --> 00:20:11,920

you can come from anywhere and then as a

400

00:20:17,130 --> 00:20:15,280

rocket scientist I want to ask you one

401  
00:20:19,170 --> 00:20:17,140  
last question so I actually have had the

402  
00:20:22,260 --> 00:20:19,180  
privilege of calling some launches and

403  
00:20:24,720 --> 00:20:22,270  
my first one was the final Delta 2 to

404  
00:20:26,340 --> 00:20:24,730  
fly Mike's at 2 was the mission and I

405  
00:20:28,050 --> 00:20:26,350  
understand that there's been a process

406  
00:20:29,640 --> 00:20:28,060  
happening for a while about maybe

407  
00:20:31,290 --> 00:20:29,650  
getting a Delta 2 rocket for the rocket

408  
00:20:33,300 --> 00:20:31,300  
garden is that gonna happen that is

409  
00:20:35,250 --> 00:20:33,310  
going to happen you know we have an

410  
00:20:37,650 --> 00:20:35,260  
amazing partnership with ula as well as

411  
00:20:40,770 --> 00:20:37,660  
of our other many other minions space

412  
00:20:42,810 --> 00:20:40,780  
space industry but yeah we're awarded

413  
00:20:45,630 --> 00:20:42,820

the Delta 2 it should be here sometime

414

00:20:47,550 --> 00:20:45,640

before the year end and we are very

415

00:20:49,080 --> 00:20:47,560

excited to partner with ula and to

416

00:20:50,970 --> 00:20:49,090

really highlight it in the rocket garden

417

00:20:51,930 --> 00:20:50,980

it's going to be an amazing amazing

418

00:20:54,990 --> 00:20:51,940

attraction

419

00:20:57,180 --> 00:20:55,000

yeah super super cool rocket lots of

420

00:20:59,100 --> 00:20:57,190

history there I think it's roughly 150

421

00:21:01,980 --> 00:20:59,110

launches in its history so a ton there

422

00:21:03,420 --> 00:21:01,990

so they're in a big thank you to you for

423

00:21:05,220 --> 00:21:03,430

joining us and again thank you to you

424

00:21:06,660 --> 00:21:05,230

and your team for hosting us you guys

425

00:21:08,160 --> 00:21:06,670

have been phenomenal we've had a great

426  
00:21:09,330 --> 00:21:08,170  
experience and gotten to share through

427  
00:21:11,460 --> 00:21:09,340  
this beautiful view with all of our

428  
00:21:13,130 --> 00:21:11,470  
guests so thinking any time Joshua thank

429  
00:21:14,660 --> 00:21:13,140  
you awesome so and that

430  
00:21:16,430 --> 00:21:14,670  
do it pretty much for us but a few

431  
00:21:17,990 --> 00:21:16,440  
thank-yous before we go I want to make

432  
00:21:20,300 --> 00:21:18,000  
sure you know that the launch is coming

433  
00:21:23,000 --> 00:21:20,310  
up this afternoon 4:30 3 p.m. is still

434  
00:21:24,950 --> 00:21:23,010  
the target of time we are gonna be on

435  
00:21:28,190 --> 00:21:24,960  
nasa.gov slash live that's kicking off

436  
00:21:30,320 --> 00:21:28,200  
at 12:15 a huge thank you to my team

437  
00:21:32,840 --> 00:21:30,330  
here there's been a lot of hard work to

438  
00:21:35,300 --> 00:21:32,850

bring you this a regular NASA social is

439

00:21:36,200 --> 00:21:35,310

one thing but this is a whole different

440

00:21:37,880 --> 00:21:36,210

game

441

00:21:40,310 --> 00:21:37,890

thank you to Bethany who's driving the

442

00:21:42,050 --> 00:21:40,320

show today for this one hi Bethany thank

443

00:21:43,610 --> 00:21:42,060

you so much and Wayne as well doing some

444

00:21:46,190 --> 00:21:43,620

of that driving and a big thank you to

445

00:21:47,900 --> 00:21:46,200

the folks here behind us again making

446

00:21:50,390 --> 00:21:47,910

sure we're safe they have been fantastic

447

00:21:52,280 --> 00:21:50,400

so appreciate you all appreciate the

448

00:21:53,900 --> 00:21:52,290

viewers for joining in and being a part

449

00:21:55,670 --> 00:21:53,910

of this and I'm gonna turn over to

450

00:21:58,100 --> 00:21:55,680

Madison now to take us out and get us

