



1
00:00:27,460 --> 00:00:57,500
- one minute

2
00:00:57,510 --> 00:01:10,599
t-minus 30 seconds

3
00:01:10,609 --> 00:01:16,660
we are go for launch

4
00:01:16,670 --> 00:01:27,460
t-minus ten nine eight six

5
00:01:30,610 --> 00:01:29,530
next up we're taking the launch complex

6
00:01:32,740 --> 00:01:30,620
39b

7
00:01:34,480 --> 00:01:32,750
where this mobile launcher will carry

8
00:02:18,240 --> 00:01:34,490
the Space Launch System all the way to

9
00:02:24,510 --> 00:02:21,240
and welcome back to our NASA social

10
00:02:27,030 --> 00:02:24,520
first ever virtual version all right i'm

11
00:02:29,010 --> 00:02:27,040
yves lamothe and happy happy to be back

12
00:02:31,380 --> 00:02:29,020
with you guys here happy Memorial Day

13
00:02:33,120 --> 00:02:31,390

once again and today we're going to give

14

00:02:36,630 --> 00:02:33,130

you a bit of an in-depth look at the

15

00:02:38,910 --> 00:02:36,640

launchpad 39 right so we can see our

16

00:02:41,490 --> 00:02:38,920

portal right before we launch into deep

17

00:02:42,900 --> 00:02:41,500

space how it really goes down today with

18

00:02:44,820 --> 00:02:42,910

me I have Stephanie placinex key

19

00:02:46,860 --> 00:02:44,830

Stephanie how are you I'm doing well is

20

00:02:48,240 --> 00:02:46,870

how are you I'm doing fantastic thank

21

00:02:50,820 --> 00:02:48,250

you so much for being with us here today

22

00:02:52,710 --> 00:02:50,830

thank you for having me hey everyone my

23

00:02:55,170 --> 00:02:52,720

name is Stephanie berzinski and I'm with

24

00:02:57,150 --> 00:02:55,180

NASA communications I'm also your NASA

25

00:02:59,400 --> 00:02:57,160

social lead here at Kennedy Space Center

26

00:03:01,050 --> 00:02:59,410

and we are so excited that you could

27

00:03:04,560 --> 00:03:01,060

join us for our first ever virtual

28

00:03:06,570 --> 00:03:04,570

global NASA social next up we're taking

29

00:03:07,350 --> 00:03:06,580

you behind the scenes of launch complex

30

00:03:09,630 --> 00:03:07,360

39b

31

00:03:12,180 --> 00:03:09,640

where the first woman in the next man

32

00:03:13,949 --> 00:03:12,190

will launch to the moon if you have a

33

00:03:15,600 --> 00:03:13,959

question please feel free to leave it in

34

00:03:18,570 --> 00:03:15,610

the comments section and it may be

35

00:03:20,520 --> 00:03:18,580

answered live during this segment first

36

00:03:23,220 --> 00:03:20,530

woman to the moon that's definitely

37

00:03:24,870 --> 00:03:23,230

worthy of a high-five so folks let's go

38

00:03:57,320 --> 00:03:24,880

ahead and take a look what happens at

39
00:04:02,900 --> 00:03:59,960
hey everyone we're at launch complex 39b

40
00:04:05,900 --> 00:04:02,910
with me I have a Regina Spellman the

41
00:04:07,220 --> 00:04:05,910
senior project manager of the pad Regina

42
00:04:09,560 --> 00:04:07,230
can you tell us a little bit more about

43
00:04:11,360 --> 00:04:09,570
what you do here yeah as the senior

44
00:04:13,400 --> 00:04:11,370
project manager my work and the

45
00:04:16,130 --> 00:04:13,410
exploration ground systems program and

46
00:04:17,990 --> 00:04:16,140
we are basically responsible for all the

47
00:04:19,250 --> 00:04:18,000
development work that's being done out

48
00:04:20,750 --> 00:04:19,260
here at the pad and when I say the

49
00:04:23,030 --> 00:04:20,760
development work what I mean is to

50
00:04:24,710 --> 00:04:23,040
distinguish between the operations we're

51
00:04:26,900 --> 00:04:24,720
responsible for the design the

52
00:04:28,910 --> 00:04:26,910
construction basically getting all the

53
00:04:30,380 --> 00:04:28,920
systems out here ready to go and then

54
00:04:31,970 --> 00:04:30,390
we'll hand it over to our operations

55
00:04:34,190 --> 00:04:31,980
counterpart to actually do the vehicle

56
00:04:35,780 --> 00:04:34,200
processing and maintaining these systems

57
00:04:37,400 --> 00:04:35,790
and getting ready for the launch day we

58
00:04:38,840 --> 00:04:37,410
have been working on this launch pad

59
00:04:41,690 --> 00:04:38,850
ever since we inherited it from the

60
00:04:43,220 --> 00:04:41,700
shuttle program back in about 2007 and

61
00:04:45,560 --> 00:04:43,230
we have been doing construction

62
00:04:47,990 --> 00:04:45,570
ever since large project small projects

63
00:04:49,130 --> 00:04:48,000

but never a break that's amazing

64

00:04:54,050 --> 00:04:49,140

so you talked a little bit about the

65

00:04:56,090 --> 00:04:54,060

refurbish yes at this bed even though

66

00:04:58,250 --> 00:04:56,100

she looks great she's over 52 years old

67

00:05:01,130 --> 00:04:58,260

this pad is the original pad that was

68

00:05:04,250 --> 00:05:01,140

built for to support the opponent our

69

00:05:06,260 --> 00:05:04,260

sister pad just south of us complex 39a

70

00:05:06,960 --> 00:05:06,270

was built first and this pad was

71

00:05:09,480 --> 00:05:06,970

completed

72

00:05:11,730 --> 00:05:09,490

two years later in 1967 Apollo 10

73

00:05:13,710 --> 00:05:11,740

launched from here in May of 1969 which

74

00:05:16,350 --> 00:05:13,720

is bright before Apollo 11 launch two

75

00:05:18,120 --> 00:05:16,360

other sister pad 39a angel and the

76

00:05:20,400 --> 00:05:18,130

following July did the dress rehearsal

77

00:05:23,910 --> 00:05:20,410

for that launch was done here just a few

78

00:05:25,740 --> 00:05:23,920

months earlier in May thanks

79

00:05:27,360 --> 00:05:25,750

converted over to support the shuttle

80

00:05:28,980 --> 00:05:27,370

program and then at the end of the

81

00:05:32,070 --> 00:05:28,990

shuttle program we took it over and

82

00:05:33,750 --> 00:05:32,080

started modernizing it for LS we have

83

00:05:35,760 --> 00:05:33,760

done just about everything out here

84

00:05:37,350 --> 00:05:35,770

every system has been touched in one way

85

00:05:39,660 --> 00:05:37,360

or another whether it was a

86

00:05:41,460 --> 00:05:39,670

refurbishment because we are right here

87

00:05:43,590 --> 00:05:41,470

by the ocean and we have a lot of salt

88

00:05:46,410 --> 00:05:43,600

air or the systems were updated because

89

00:05:48,510 --> 00:05:46,420

these things were coming up 4050 years

90

00:05:50,430 --> 00:05:48,520

old I needed to be modernized or some

91

00:05:52,140 --> 00:05:50,440

are completely replaced because with a

92

00:05:54,090 --> 00:05:52,150

new vehicle and a new architecture we

93

00:05:56,220 --> 00:05:54,100

have new requirements so one thing I

94

00:05:59,490 --> 00:05:56,230

noticed about driving up here is these

95

00:06:00,690 --> 00:05:59,500

incredibly large lightning powers can

96

00:06:02,730 --> 00:06:00,700

you tell me a little bit more about them

97

00:06:12,550 --> 00:06:02,740

are they are they taller than the

98

00:06:15,490 --> 00:06:14,170

these towers were the first construction

99

00:06:16,780 --> 00:06:15,500

project that we did out here they were

100

00:06:18,900 --> 00:06:16,790

actually still flying the shuttle

101
00:06:23,550 --> 00:06:18,910
program

102
00:06:26,280 --> 00:06:23,560
we did these towers there wasn't even an

103
00:06:28,740 --> 00:06:26,290
SLS rocket lightning towers were

104
00:06:30,150 --> 00:06:28,750
actually designed to support any vehicle

105
00:06:38,180 --> 00:06:30,160
that you believe in beautiful said the

106
00:06:41,090 --> 00:06:39,590
can you tell me a little bit more about

107
00:06:47,890 --> 00:06:41,100
the Watertown

108
00:06:53,559 --> 00:06:50,750
water and this

109
00:06:55,570 --> 00:06:53,569
less than 30 seconds we start this

110
00:06:56,980 --> 00:06:55,580
prior to liftoff and then the second

111
00:07:00,110 --> 00:06:56,990
legged that starts three seconds after

112
00:07:00,120 --> 00:07:31,830
branch off and we have two legs

113
00:07:37,749 --> 00:07:36,279

and reflect back to the people so over

114

00:07:39,249 --> 00:07:37,759

the years in the previous programs

115

00:07:47,670 --> 00:07:39,259

they've learned this lesson if you put

116

00:07:50,999 --> 00:07:49,260

well I don't think you'd want to be very

117

00:07:54,120 --> 00:07:51,009

close I mean this is the most powerful

118

00:07:56,370 --> 00:07:54,130

we've ever launched but we are typically

119

00:07:58,050 --> 00:07:56,380

we have the closest you are the launch

120

00:08:00,120 --> 00:07:58,060

control center which is about four miles

121

00:08:01,830 --> 00:08:00,130

away we do have a few individuals that

122

00:08:03,060 --> 00:08:01,840

are a little closer but they're in

123

00:08:04,560 --> 00:08:03,070

protective buildings and they're there

124

00:08:06,180 --> 00:08:04,570

to support critical systems

125

00:08:09,460 --> 00:08:06,190

now you mentioned a little bit about the

126
00:08:09,470 --> 00:08:20,380
[Music]

127
00:08:20,390 --> 00:08:28,189
No

128
00:08:32,909 --> 00:08:30,240
all right reaching that this is

129
00:08:43,639 --> 00:08:32,919
[Music]

130
00:08:51,640 --> 00:08:45,559
mobile launcher comes out here at the

131
00:08:55,600 --> 00:08:53,560
that's actually what we'll take all the

132
00:08:57,610 --> 00:08:55,610
exhaust coming off

133
00:08:59,560 --> 00:08:57,620
and it will divert it less white has

134
00:09:00,819 --> 00:08:59,570
held the deflector and it will shoot it

135
00:09:04,360 --> 00:09:00,829
straight out towards us

136
00:09:11,050 --> 00:09:04,370
of course we won't be here his brake is

137
00:09:11,060 --> 00:09:23,840
[Music]

138
00:09:23,850 --> 00:09:32,640

he's good bricks with 96,000 bricks

139

00:09:37,800 --> 00:09:35,580

the deflector behind us was designed to

140

00:09:40,590 --> 00:09:37,810

support the SLS but it could also

141

00:09:41,760 --> 00:09:40,600

support any of the u.s. launch vehicles

142

00:09:43,890 --> 00:09:41,770

that were flying at the time of the

143

00:09:58,510 --> 00:09:43,900

design we went into the design because

144

00:10:06,400 --> 00:10:03,070

so did you tell us a little bit more

145

00:10:08,290 --> 00:10:06,410

about that yeah so I kind of dug this

146

00:10:10,269 --> 00:10:08,300

base architectures go in and out of

147

00:10:12,790 --> 00:10:10,279

psionic factions right so in Apollo

148

00:10:14,829 --> 00:10:12,800

program we had a large public launch

149

00:10:23,710 --> 00:10:14,839

tower and the vehicle was stacked on

150

00:10:25,300 --> 00:10:23,720

that tower it came out to the pad and

151

00:10:27,130 --> 00:10:25,310

then we also had a rotating service

152

00:10:29,650 --> 00:10:27,140

structure so when you see pictures of

153

00:10:31,930 --> 00:10:29,660

the shuttle pad is a massive structures

154

00:10:33,430 --> 00:10:31,940

out there that would enclose the orbiter

155

00:10:34,110 --> 00:10:33,440

and then they could do operations on the

156

00:10:36,180 --> 00:10:34,120

orbiter

157

00:10:42,330 --> 00:10:36,190

right there at the pad when we started

158

00:10:48,020 --> 00:10:45,670

is to do as much of those operations and

159

00:10:49,790 --> 00:10:48,030

connections

160

00:10:52,100 --> 00:10:49,800

the Vehicle Assembly Building we have

161

00:10:53,840 --> 00:10:52,110

more access platforms and then when you

162

00:10:55,300 --> 00:10:53,850

come out here to the pad you're here for

163

00:10:57,639 --> 00:10:55,310

a few days

164

00:11:00,169 --> 00:10:57,649

[Music]

165

00:11:01,729 --> 00:11:00,179

and there's a lesson to maintain and

166

00:11:03,919 --> 00:11:01,739

there's less operation shot here I think

167

00:11:06,739 --> 00:11:03,929

that basically any of the connections to

168

00:11:08,820 --> 00:11:06,749

the vehicle and then any of the

169

00:11:12,810 --> 00:11:08,830

connections with big things

170

00:11:16,590 --> 00:11:15,480

yeah can you tell us your favorite thing

171

00:11:19,110 --> 00:11:16,600

about working at NASA

172

00:11:20,940 --> 00:11:19,120

well I mean obviously it's a great place

173

00:11:22,770 --> 00:11:20,950

to come to work every day what we do and

174

00:11:23,730 --> 00:11:22,780

what our mission is is really excited

175

00:11:25,920 --> 00:11:23,740

and it's something that I really think

176

00:11:40,470 --> 00:11:25,930

we're writing history and it's fun to go

177

00:11:45,819 --> 00:11:43,990

that migrated onto our society

178

00:11:47,559 --> 00:11:45,829

everyone's so dedicated and so bright

179

00:11:48,910 --> 00:11:47,569

and talented and it's just really

180

00:11:56,889 --> 00:11:48,920

exciting to work with the people out

181

00:11:58,869 --> 00:11:56,899

here every day hopefully you guys

182

00:12:00,639 --> 00:11:58,879

enjoyed that video and getting some

183

00:12:03,730 --> 00:12:00,649

details about the pad and what really

184

00:12:05,650 --> 00:12:03,740

goes on in how it's been revamped

185

00:12:07,929 --> 00:12:05,660

throughout the many different programs

186

00:12:11,019 --> 00:12:07,939

that that that have been here I'm at

187

00:12:12,939 --> 00:12:11,029

NASA so with me right now I'm you just

188

00:12:14,920 --> 00:12:12,949

saw her on the video I have Regina's

189

00:12:16,389 --> 00:12:14,930

family with me Regina how are you I'm

190

00:12:17,679 --> 00:12:16,399

great it's great to be here yeah that's

191

00:12:19,840 --> 00:12:17,689

it thank you so much for being here

192

00:12:21,579 --> 00:12:19,850

especially on Memorial Day

193

00:12:23,980 --> 00:12:21,589

I'm sure you could be out there having

194

00:12:25,749 --> 00:12:23,990

some fun at the beach and maybe cooking

195

00:12:28,629 --> 00:12:25,759

some burgers or you know enjoying well

196

00:12:30,369 --> 00:12:28,639

it's raining so maybe not but this got

197

00:12:31,780 --> 00:12:30,379

to be this at least the second best

198

00:12:32,559 --> 00:12:31,790

place to be right now right definitely

199

00:12:33,910 --> 00:12:32,569

up there I mean these are really

200

00:12:36,009 --> 00:12:33,920

exciting times I mean we're about to

201
00:12:37,720 --> 00:12:36,019
return Americans some into space so this

202
00:12:39,160 --> 00:12:37,730
is very exciting that is that is so so

203
00:12:40,629 --> 00:12:39,170
exciting so weird you know why don't you

204
00:12:42,160 --> 00:12:40,639
introduce yourself to tell us a little

205
00:12:43,780 --> 00:12:42,170
bit about yourself and we have some

206
00:12:46,090 --> 00:12:43,790
questions we'd love to ask you about the

207
00:12:47,559 --> 00:12:46,100
pad yeah sure my name is Regina Spellman

208
00:12:48,819 --> 00:12:47,569
I'm the senior project manager for

209
00:12:50,889 --> 00:12:48,829
launch complex 39b

210
00:12:53,170 --> 00:12:50,899
that's in support of the exploration

211
00:12:55,720 --> 00:12:53,180
ground systems program which is part of

212
00:12:57,249 --> 00:12:55,730
the Artemis overall mission I have been

213
00:12:59,769 --> 00:12:57,259

working on the launch pad and the mobile

214

00:13:02,769 --> 00:12:59,779

launcher since the beginning even back

215

00:13:06,429 --> 00:13:02,779

when it was constellation so it's been

216

00:13:08,139 --> 00:13:06,439

quite a joyful ride so I'm from the from

217

00:13:10,990 --> 00:13:08,149

the video it sounds like there's been a

218

00:13:13,840 --> 00:13:11,000

quite a bit of work done to prepare it

219

00:13:16,319 --> 00:13:13,850

for Artemis so what would you say is

220

00:13:18,400 --> 00:13:16,329

left to do to get it ready for launch

221

00:13:19,569 --> 00:13:18,410

for the first launch for Artemis one

222

00:13:21,610 --> 00:13:19,579

we're ready to go

223

00:13:23,079 --> 00:13:21,620

we had the we've been we were one of the

224

00:13:24,490 --> 00:13:23,089

first things to get going we were

225

00:13:26,710 --> 00:13:24,500

independent of any launch vehicle

226

00:13:28,449 --> 00:13:26,720

designs because we are independent of

227

00:13:29,499 --> 00:13:28,459

the launch vehicle directly so we got a

228

00:13:30,759 --> 00:13:29,509

little head start on some of our

229

00:13:32,860 --> 00:13:30,769

counterparts like the mobile launcher

230

00:13:35,470 --> 00:13:32,870

and the software and the flight elements

231

00:13:37,689 --> 00:13:35,480

so the launch pad is ready for Artemis

232

00:13:39,249 --> 00:13:37,699

one and we're actually starting to to

233

00:13:41,139 --> 00:13:39,259

look forward to the first crewed mission

234

00:13:42,400 --> 00:13:41,149

so we're doing some of the some of the

235

00:13:43,960 --> 00:13:42,410

other systems that aren't needed for

236

00:13:46,540 --> 00:13:43,970

Artemis one like the emergency egress

237

00:13:48,579 --> 00:13:46,550

and that's needed for Artemis - gotcha

238

00:13:49,929 --> 00:13:48,589

understand now we did have an

239

00:13:52,449 --> 00:13:49,939

opportunity for some of the folks that

240

00:13:54,129 --> 00:13:52,459

are watching us on live to post some

241

00:13:55,220 --> 00:13:54,139

questions so Stephanie do we have a few

242

00:13:57,829 --> 00:13:55,230

questions from the audience

243

00:13:59,360 --> 00:13:57,839

they would like to ask yes we've

244

00:14:01,370 --> 00:13:59,370

actually gotten a lot of great questions

245

00:14:04,340 --> 00:14:01,380

we got one from Elliott he wants to know

246

00:14:06,889 --> 00:14:04,350

how old the launch pad 39b is and what

247

00:14:07,879 --> 00:14:06,899

vehicles have lifted off from there so

248

00:14:09,740 --> 00:14:07,889

if you look at her today you'd almost

249

00:14:11,990 --> 00:14:09,750

ask how young she is she's had a

250

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

complete makeover the launch pad launch

251
00:14:16,550 --> 00:14:14,010
complex 39a which were they're launching

252
00:14:18,139 --> 00:14:16,560
off of in just a couple of days was was

253
00:14:20,660 --> 00:14:18,149
built first and that was completed in

254
00:14:23,480 --> 00:14:20,670
1965 and launch complex 39b its sister

255
00:14:25,220 --> 00:14:23,490
pad was built just two years later it

256
00:14:27,769 --> 00:14:25,230
was in preparation for the Apollo and

257
00:14:29,720 --> 00:14:27,779
going to the moon the first time the dry

258
00:14:32,600 --> 00:14:29,730
run for Apollo 11 was actually launched

259
00:14:35,030 --> 00:14:32,610
off of launch complex 39b in May of 1969

260
00:14:36,980 --> 00:14:35,040
you know setting the stage for Apollo 11

261
00:14:41,420 --> 00:14:36,990
which launched off of the 39a

262
00:14:43,160 --> 00:14:41,430
I'm just the following July we have

263
00:14:44,569 --> 00:14:43,170

another question from our audience they

264

00:14:47,000 --> 00:14:44,579

want to know can different types of

265

00:14:48,199 --> 00:14:47,010

launch vehicles launch from 39 B yeah

266

00:14:50,360 --> 00:14:48,209

that's a big part of what we're doing

267

00:14:53,750 --> 00:14:50,370

part of our mission is also to enable

268

00:14:55,430 --> 00:14:53,760

other government partners or commercial

269

00:14:56,810 --> 00:14:55,440

partners come out here and utilize some

270

00:14:59,449 --> 00:14:56,820

of the different infrastructure assets

271

00:15:01,550 --> 00:14:59,459

that we have we have such a large amount

272

00:15:03,530 --> 00:15:01,560

of equipment and infrastructure here and

273

00:15:05,000 --> 00:15:03,540

in order to really be able to sustain it

274

00:15:07,310 --> 00:15:05,010

and afford it over the long term it's

275

00:15:09,019 --> 00:15:07,320

better to have other users of it and so

276

00:15:10,400 --> 00:15:09,029

one of our goals in in modernizing

277

00:15:12,829 --> 00:15:10,410

launch complex 39b

278

00:15:15,530 --> 00:15:12,839

was to make her able to be used for

279

00:15:17,600 --> 00:15:15,540

multi users everything that we designed

280

00:15:20,240 --> 00:15:17,610

was optimized for SLS because it will be

281

00:15:22,060 --> 00:15:20,250

the most powerful rocket but it's also

282

00:15:25,100 --> 00:15:22,070

but it will be able to launch anything

283

00:15:26,240 --> 00:15:25,110

that Americans are flying today all the

284

00:15:28,670 --> 00:15:26,250

infrastructure that we have out there

285

00:15:30,259 --> 00:15:28,680

will connect up to a mobile launcher so

286

00:15:32,689 --> 00:15:30,269

our commercial partners we just need to

287

00:15:34,160 --> 00:15:32,699

bring their own mobile launcher and and

288

00:15:37,130 --> 00:15:34,170

and they will have their own unique

289

00:15:38,660 --> 00:15:37,140

asset connections to their vehicle but

290

00:15:40,250 --> 00:15:38,670

because of the clean pad architecture

291

00:15:42,259 --> 00:15:40,260

that we have without all that having a

292

00:15:45,050 --> 00:15:42,269

large structure out there you could

293

00:15:46,880 --> 00:15:45,060

launch any vehicle off of that awesome

294

00:15:48,949 --> 00:15:46,890

Thank You Regina we have one more

295

00:15:50,870 --> 00:15:48,959

question here from Laurie she wants to

296

00:15:53,000 --> 00:15:50,880

know what do you suggest we as teachers

297

00:15:56,150 --> 00:15:53,010

can do to inspire our students about

298

00:15:58,220 --> 00:15:56,160

STEM our steam careers well that's a

299

00:16:00,170 --> 00:15:58,230

great question I tell you I grew up in

300

00:16:01,040 --> 00:16:00,180

Indiana and if you would tell me that

301

00:16:02,750 --> 00:16:01,050

when you grow up you're going to be

302

00:16:04,970 --> 00:16:02,760

working on a launch complex some a

303

00:16:06,620 --> 00:16:04,980

launch pad for returning for putting the

304

00:16:08,540 --> 00:16:06,630

first woman on the moon and the next man

305

00:16:10,639 --> 00:16:08,550

I would never believed you

306

00:16:12,259 --> 00:16:10,649

I think what's important is for you know

307

00:16:13,880 --> 00:16:12,269

they say just to see me

308

00:16:15,500 --> 00:16:13,890

and when they see you know similar

309

00:16:17,210 --> 00:16:15,510

examples of people that are doing the

310

00:16:19,699 --> 00:16:17,220

things and and to put themselves in that

311

00:16:21,139 --> 00:16:19,709

situation it's just so make it that they

312

00:16:23,930 --> 00:16:21,149

understand that there are no limits um

313

00:16:25,940 --> 00:16:23,940

you know to what they can do I think we

314

00:16:29,150 --> 00:16:25,950

emphasize a lot of Science and

315

00:16:30,889 --> 00:16:29,160

Technology and math but I also think and

316

00:16:32,930 --> 00:16:30,899

I have a young son myself and one of the

317

00:16:35,210 --> 00:16:32,940

things I strive to work with him on is

318

00:16:37,670 --> 00:16:35,220

also communication it's a big part of

319

00:16:39,590 --> 00:16:37,680

what we do and so I think it's it to

320

00:16:41,329 --> 00:16:39,600

really be able to challenge some of

321

00:16:43,460 --> 00:16:41,339

these to take on to some of these really

322

00:16:44,870 --> 00:16:43,470

challenging problems you have to be able

323

00:16:47,509 --> 00:16:44,880

to communicate and work together because

324

00:16:49,250 --> 00:16:47,519

so much of what we do depends on a team

325

00:16:51,290 --> 00:16:49,260

and a very diverse team and it's

326

00:16:52,819 --> 00:16:51,300

important to be able to bring in the

327

00:16:54,530 --> 00:16:52,829

best and the brightest of everyone to

328

00:16:56,449 --> 00:16:54,540

work together to accomplish some of

329

00:16:59,870 --> 00:16:56,459

these very lofty goals that we have

330

00:17:02,480 --> 00:16:59,880

ahead of us it's so refreshing to just

331

00:17:05,929 --> 00:17:02,490

to hear you speak and in the way you you

332

00:17:08,210 --> 00:17:05,939

can definitely you know inspire folks to

333

00:17:10,400 --> 00:17:08,220

do to go off and do and do great things

334

00:17:13,220 --> 00:17:10,410

so I want to ask what does this launch

335

00:17:15,860 --> 00:17:13,230

mean to you I mean we are at the

336

00:17:17,870 --> 00:17:15,870

forefront of you know returning into

337

00:17:20,090 --> 00:17:17,880

deep space exploration launching

338

00:17:23,600 --> 00:17:20,100

American astronaut on American Rockets

339

00:17:25,280 --> 00:17:23,610

in the United States all what what does

340

00:17:27,350 --> 00:17:25,290

all of this mean to you

341

00:17:29,390 --> 00:17:27,360

so it's it's funny I think most people

342

00:17:30,799 --> 00:17:29,400

that know me would if I say that I don't

343

00:17:32,299 --> 00:17:30,809

have words to express it they wouldn't

344

00:17:33,830 --> 00:17:32,309

they would kind of laugh because I'm

345

00:17:36,020 --> 00:17:33,840

never short for words

346

00:17:37,880 --> 00:17:36,030

but it is really really tough to put

347

00:17:40,700 --> 00:17:37,890

into words how much that's going to mean

348

00:17:43,159 --> 00:17:40,710

to all of us there's been a tremendous

349

00:17:44,780 --> 00:17:43,169

amount of work that's gone into this and

350

00:17:47,419 --> 00:17:44,790

not just here at Kennedy but across the

351
00:17:49,490 --> 00:17:47,429
agency to get ready for SLS Orion and

352
00:17:52,549 --> 00:17:49,500
for us to do this next launch and for us

353
00:17:56,480 --> 00:17:52,559
you know to really go beyond what we've

354
00:17:58,250 --> 00:17:56,490
done before I go back to the Abraham

355
00:17:59,870 --> 00:17:58,260
Lincoln quote when he says you know the

356
00:18:02,600 --> 00:17:59,880
best way to predict the future is to

357
00:18:04,070 --> 00:18:02,610
create it and you know we have the honor

358
00:18:06,590 --> 00:18:04,080
everyday of coming out here and working

359
00:18:07,850 --> 00:18:06,600
where the generations before us in the

360
00:18:09,950 --> 00:18:07,860
Apollo program and the shuttle program

361
00:18:11,840 --> 00:18:09,960
and the tremendous things that they

362
00:18:13,490 --> 00:18:11,850
achieved and we're just taking that to

363
00:18:15,140 --> 00:18:13,500

the next step further and I'm really

364

00:18:17,450 --> 00:18:15,150

trying to open the you know writing the

365

00:18:18,110 --> 00:18:17,460

chapter of in the next for human

366

00:18:19,430 --> 00:18:18,120

spaceflight

367

00:18:21,470 --> 00:18:19,440

so being

368

00:18:22,760 --> 00:18:21,480

this is a such a historic moment what do

369

00:18:27,410 --> 00:18:22,770

you think you'll be on Wednesday for the

370

00:18:28,940 --> 00:18:27,420

launch as close as I can get and then I

371

00:18:30,860 --> 00:18:28,950

definitely want to have my son there and

372

00:18:33,320 --> 00:18:30,870

I want him to see it because we haven't

373

00:18:34,730 --> 00:18:33,330

been we haven't put Americans in space

374

00:18:37,100 --> 00:18:34,740

on American Rockets since he was born

375

00:18:39,890 --> 00:18:37,110

and it's important for them to that to

376

00:18:42,250 --> 00:18:39,900

be a part of their normal gotcha do you

377

00:18:46,070 --> 00:18:42,260

have time for maybe one more question

378

00:18:46,670 --> 00:18:46,080

sure so somebody else wants to know from

379

00:18:49,370 --> 00:18:46,680

the audience

380

00:18:51,890 --> 00:18:49,380

we're 39 a and B built at the same time

381

00:18:54,290 --> 00:18:51,900

so they were built as part of the same

382

00:18:56,900 --> 00:18:54,300

effort but they were built staggered so

383

00:18:59,810 --> 00:18:56,910

launch complex 39a was completed two

384

00:19:01,460 --> 00:18:59,820

years prior to 39 B and they're

385

00:19:03,590 --> 00:19:01,470

originally there were plans to build

386

00:19:05,930 --> 00:19:03,600

more pads but based on the the launch

387

00:19:07,670 --> 00:19:05,940

manifest and everything they were able

388

00:19:10,730 --> 00:19:07,680

to accomplish their goals with just the

389

00:19:12,080 --> 00:19:10,740

two launch complexes okay and and so one

390

00:19:14,900 --> 00:19:12,090

last question for your agent is there a

391

00:19:17,420 --> 00:19:14,910

reason why the pad is at the location

392

00:19:21,800 --> 00:19:17,430

that it is now because of the beautiful

393

00:19:24,350 --> 00:19:21,810

view of the ocean of course it's really

394

00:19:25,940 --> 00:19:24,360

important to be away from crowded areas

395

00:19:28,460 --> 00:19:25,950

and you know the safety of the public is

396

00:19:30,440 --> 00:19:28,470

one of our number-one goals and so

397

00:19:33,110 --> 00:19:30,450

because we are on the on the coast we

398

00:19:34,610 --> 00:19:33,120

are able to launch away from public

399

00:19:37,970 --> 00:19:34,620

areas I don't think anybody would want a

400

00:19:39,680 --> 00:19:37,980

rocket going over Disneyworld so being

401
00:19:42,290 --> 00:19:39,690
on the coast being away from populated

402
00:19:44,660 --> 00:19:42,300
areas and also you know being away from

403
00:19:46,280 --> 00:19:44,670
you know air traffic and that sort of

404
00:19:48,020 --> 00:19:46,290
things have been isolated so that's

405
00:19:49,730 --> 00:19:48,030
that's the reason why we're out there

406
00:19:53,750 --> 00:19:49,740
that and no one wants to live there with

407
00:19:55,730 --> 00:19:53,760
all the mosquitoes now so Regina thank

408
00:19:58,730 --> 00:19:55,740
you so much for being here with us and

409
00:20:02,810 --> 00:19:58,740
sharing your knowledge and your passion

410
00:20:05,090 --> 00:20:02,820
even if it's it's it's very hard to to

411
00:20:07,670 --> 00:20:05,100
not miss your your passion that you have

412
00:20:10,430 --> 00:20:07,680
for everything that you do and and here

413
00:20:12,530 --> 00:20:10,440

we have with us a woman who's doing

414

00:20:14,330 --> 00:20:12,540

great things for NASA as we prepare to

415

00:20:17,300 --> 00:20:14,340

send you know prepare ourselves to send

416

00:20:19,790 --> 00:20:17,310

women back to our Sen women period to

417

00:20:21,980 --> 00:20:19,800

the moon so thank you again for joining

418

00:20:24,920 --> 00:20:21,990

us and answering all the questions guys

419

00:20:27,230 --> 00:20:24,930

please um stay tuned for the next shows

420

00:20:29,720 --> 00:20:27,240

that we have coming up at one o'clock we

421

00:20:32,130 --> 00:20:29,730

have if you interested in being a space

422

00:20:33,180 --> 00:20:32,140

farmer it's a show that you definitely

423

00:20:35,970 --> 00:20:33,190

don't want to miss we're gonna talk

424

00:20:37,770 --> 00:20:35,980

about veggies and plants growing them in

425

00:20:40,350 --> 00:20:37,780

space that's gonna be at one o'clock so

426

00:20:42,390 --> 00:20:40,360

please come back join us Stephanie thank

427

00:20:44,280 --> 00:20:42,400

you for for being here with us

428

00:20:45,690 --> 00:20:44,290

I mean I'm surrounded by talent here

429

00:20:49,020 --> 00:20:45,700

right and it's all about it's all about

430

00:20:51,360 --> 00:20:49,030

the women and and please guys once again