



1  
00:00:03,910 --> 00:00:01,500  
one

2  
00:00:06,230 --> 00:00:03,920  
[Music]

3  
00:00:09,049 --> 00:00:06,240  
through Artemis

4  
00:00:10,240 --> 00:00:09,059  
the twin sister of Apollo we are

5  
00:00:12,249 --> 00:00:10,250  
returning to the Moon

6  
00:00:14,749 --> 00:00:12,259  
[Music]

7  
00:00:16,530 --> 00:00:14,759  
Artemis 1 will be the first flight test

8  
00:00:19,609 --> 00:00:16,540  
of each of these components

9  
00:00:21,189 --> 00:00:19,619  
[Music]

10  
00:00:24,670 --> 00:00:21,199  
United together

11  
00:00:27,410 --> 00:00:24,680  
this is the first of artemis's arrows

12  
00:00:29,440 --> 00:00:27,420  
capable of ushering in the next chapter

13  
00:00:32,089 --> 00:00:29,450

of human lunar exploration

14

00:00:35,450 --> 00:00:32,099

[Music]

15

00:00:38,209 --> 00:00:35,460

playing its part in a grander effort

16

00:00:40,970 --> 00:00:38,219

we the people of the Artemis Generation

17

00:00:43,729 --> 00:00:40,980

all around this beautiful world will

18

00:00:48,229 --> 00:00:43,739

bear witness to what we are capable of

19

00:00:59,689 --> 00:00:49,670

are going back to the Moon

20

00:01:04,429 --> 00:01:02,090

good afternoon and welcome into the

21

00:01:07,429 --> 00:01:04,439

iconic Vehicle Assembly Building at

22

00:01:10,609 --> 00:01:07,439

NASA's Kennedy Space Center in Florida I

23

00:01:14,090 --> 00:01:10,619

am Megan Cruz and today you will witness

24

00:01:16,130 --> 00:01:14,100

history in the making that right there

25

00:01:19,609 --> 00:01:16,140

is the world's most powerful rocket

26  
00:01:21,649 --> 00:01:19,619  
NASA's space launch system or SLS and on

27  
00:01:24,890 --> 00:01:21,659  
top the Orion spacecraft that will

28  
00:01:27,230 --> 00:01:24,900  
return us to the Moon we are reigniting

29  
00:01:29,990 --> 00:01:27,240  
our passion for Discovery today by

30  
00:01:33,649 --> 00:01:30,000  
Rolling this integrated system out of

31  
00:01:36,710 --> 00:01:33,659  
the VAB for the first time ever that

32  
00:01:39,770 --> 00:01:36,720  
role started just a few seconds ago and

33  
00:01:43,370 --> 00:01:39,780  
now both SLS and Orion are headed to

34  
00:01:45,950 --> 00:01:43,380  
Historic launch pad 39b for a critical

35  
00:01:48,469 --> 00:01:45,960  
test that will help determine if we are

36  
00:01:51,830 --> 00:01:48,479  
ready for Artemis 1.

37  
00:01:54,950 --> 00:01:51,840  
Artemis 1 is an uncrewed test flight of

38  
00:01:57,950 --> 00:01:54,960

SLS Orion and the ground systems here at

39

00:02:01,130 --> 00:01:57,960

Kennedy if all goes well Orion will

40

00:02:04,910 --> 00:02:01,140

orbit the Moon farther than any of the

41

00:02:07,490 --> 00:02:04,920

Apollo missions before it Artemis 2 will

42

00:02:10,309 --> 00:02:07,500

have astronauts on board when it orbits

43

00:02:13,430 --> 00:02:10,319

the moon and then Artemis 3 and future

44

00:02:16,070 --> 00:02:13,440

missions will land the first woman and

45

00:02:18,589 --> 00:02:16,080

person of color on the moon's surface

46

00:02:22,490 --> 00:02:18,599

the last time a person stepped foot on

47

00:02:25,309 --> 00:02:22,500

the moon was 50 years ago for Apollo 17

48

00:02:27,110 --> 00:02:25,319

and that was the last time a moon bound

49

00:02:28,790 --> 00:02:27,120

rocket left the Vehicle Assembly

50

00:02:31,729 --> 00:02:28,800

Building

51  
00:02:34,250 --> 00:02:31,739  
now close to 10 000 people have gathered

52  
00:02:36,229 --> 00:02:34,260  
outside the VAV to see today's rollout

53  
00:02:38,210 --> 00:02:36,239  
wow look at that crowd you know it

54  
00:02:41,630 --> 00:02:38,220  
sounds like an easy operation rollout

55  
00:02:43,729 --> 00:02:41,640  
but really it's not as easy as it may

56  
00:02:46,190 --> 00:02:43,739  
seem together the rocket and spacecraft

57  
00:02:48,949 --> 00:02:46,200  
stand just taller than the Statue of

58  
00:02:50,809 --> 00:02:48,959  
Liberty as you can imagine you have

59  
00:02:53,089 --> 00:02:50,819  
pretty impressive machine to move at all

60  
00:02:55,910 --> 00:02:53,099  
well take a look at your screen we're

61  
00:02:56,869 --> 00:02:55,920  
going to show you what we call the

62  
00:02:59,570 --> 00:02:56,879  
crawler

63  
00:03:02,930 --> 00:02:59,580

because it will slowly and carefully

64

00:03:05,030 --> 00:03:02,940

crawl SLS and Orion the four miles to

65

00:03:06,830 --> 00:03:05,040

the launch pad it's that piece of

66

00:03:09,649 --> 00:03:06,840

Machinery you see on the bottom they're

67

00:03:11,990 --> 00:03:09,659

carrying all of that it's four miles to

68

00:03:15,410 --> 00:03:12,000

the launch pad estimated arrival at the

69

00:03:18,170 --> 00:03:15,420

pad is 4 30 a.m tomorrow morning so

70

00:03:19,729 --> 00:03:18,180

again 11 hours from now we are taking

71

00:03:21,649 --> 00:03:19,739

the slow and easy

72

00:03:23,869 --> 00:03:21,659

whether you're here in person or with us

73

00:03:26,509 --> 00:03:23,879

virtually we are so glad to have you

74

00:03:28,850 --> 00:03:26,519

here to celebrate this historic moment

75

00:03:31,490 --> 00:03:28,860

over the next hour we will have a Grammy

76  
00:03:33,410 --> 00:03:31,500  
award-winning artist Eddie Vedder with a

77  
00:03:35,690 --> 00:03:33,420  
song that honors the Artemis missions

78  
00:03:38,509 --> 00:03:35,700  
you will also hear from NASA's

79  
00:03:40,190 --> 00:03:38,519  
administrator but first I'm excited to

80  
00:03:43,130 --> 00:03:40,200  
introduce the University of Central

81  
00:03:47,330 --> 00:03:43,140  
Florida's German Knights to perform our

82  
00:03:47,340 --> 00:04:11,630  
oh

83  
00:04:11,640 --> 00:04:39,290  
together

84  
00:04:39,300 --> 00:04:50,170  
foreign

85  
00:04:50,180 --> 00:04:57,830  
thank you

86  
00:04:57,840 --> 00:05:35,029  
[Applause]

87  
00:05:35,039 --> 00:05:46,390  
foreign

88  
00:05:53,390 --> 00:05:49,790

to the Moon is a multinational ambition

89

00:05:55,730 --> 00:05:53,400

the tireless work of more than 70 000

90

00:05:58,010 --> 00:05:55,740

people across every state of our country

91

00:06:00,650 --> 00:05:58,020

and also different countries around the

92

00:06:02,689 --> 00:06:00,660

world SLS and Orion parts were brought

93

00:06:05,689 --> 00:06:02,699

to Kennedy Space Center VIA trains

94

00:06:10,550 --> 00:06:05,699

planes ships and vehicles for final

95

00:06:16,610 --> 00:06:12,790

foreign

96

00:06:31,490 --> 00:06:18,830

every piece of Hardware necessary to

97

00:06:40,010 --> 00:06:35,090

they are being assembled stacked fueled

98

00:06:43,730 --> 00:06:41,749

the next time these engines fire up

99

00:06:45,710 --> 00:06:43,740

we'll be on the launch pad to send an

100

00:06:47,210 --> 00:06:45,720

uncrewed Orion spacecraft around the

101  
00:06:54,430 --> 00:06:47,220  
Moon on a flight test for the Artemis

102  
00:06:59,689 --> 00:06:57,290  
it's been a journey of a thousand miles

103  
00:07:02,450 --> 00:06:59,699  
from Factory floors all across this

104  
00:07:04,500 --> 00:07:02,460  
country and around the world

105  
00:07:10,370 --> 00:07:04,510  
to hear

106  
00:07:14,029 --> 00:07:10,380  
[Music]

107  
00:07:25,730 --> 00:07:14,039  
and now the stage has been set

108  
00:07:29,930 --> 00:07:28,309  
the framework to support the enormity of

109  
00:07:35,930 --> 00:07:29,940  
this moment can be measured in

110  
00:07:41,809 --> 00:07:39,050  
but in the testing of a metal found much

111  
00:07:51,420 --> 00:07:45,600  
segment built upon the one before it

112  
00:07:51,430 --> 00:07:55,189  
[Music]

113  
00:07:59,529 --> 00:07:57,830

the volume of anticipation can be seen

114

00:08:02,450 --> 00:07:59,539

Rising

115

00:08:10,369 --> 00:08:02,460

for in addition to certifying what a

116

00:08:10,379 --> 00:08:15,150

foreign

117

00:08:19,909 --> 00:08:17,170

[Music]

118

00:08:21,430 --> 00:08:19,919

and a new era of American space

119

00:08:24,529 --> 00:08:21,440

exploration

120

00:08:26,850 --> 00:08:24,539

Artemis will demonstrate A New Path to

121

00:08:30,189 --> 00:08:26,860

the moon for this generation

122

00:08:37,070 --> 00:08:34,130

test flight will be a final proving of

123

00:08:38,529 --> 00:08:37,080

every system and every component in the

124

00:08:41,870 --> 00:08:38,539

harshness of space

125

00:08:44,029 --> 00:08:41,880

a mission that when successful will open

126

00:08:46,370 --> 00:08:44,039

the door for the moonwalkers and lunar

127

00:08:48,850 --> 00:08:46,380

experiments that so many have hoped and

128

00:08:52,410 --> 00:08:48,860

dreamed about

129

00:08:59,509 --> 00:08:52,420

we are going

130

00:09:03,230 --> 00:09:01,370

eight minutes until rollout and as you

131

00:09:05,990 --> 00:09:03,240

can see our crawler team is still

132

00:09:07,910 --> 00:09:06,000

focused working really hard to get SLS

133

00:09:10,430 --> 00:09:07,920

and Orion out of the vehicle Assembly

134

00:09:12,230 --> 00:09:10,440

Building you know this is years in the

135

00:09:14,630 --> 00:09:12,240

in the making this operation with John

136

00:09:17,329 --> 00:09:14,640

Giles here leading the way he oversees

137

00:09:19,730 --> 00:09:17,339

our crawler team with NASA's exploration

138

00:09:21,230 --> 00:09:19,740

ground systems program or EGS here at

139

00:09:22,910 --> 00:09:21,240

Kennedy thank you so much for finding

140

00:09:25,370 --> 00:09:22,920

the time to talk with us John very much

141

00:09:27,949 --> 00:09:25,380

welcome and I just got word that the

142

00:09:28,970 --> 00:09:27,959

crawler has crossed the threshold of the

143

00:09:31,190 --> 00:09:28,980

VAV

144

00:09:34,670 --> 00:09:31,200

how does that feel I'm so excited you

145

00:09:36,769 --> 00:09:34,680

should be excited you're alive inside I

146

00:09:38,269 --> 00:09:36,779

am very excited awesome that's great

147

00:09:39,470 --> 00:09:38,279

yeah talk to me about where we are in

148

00:09:40,850 --> 00:09:39,480

the operation you know there was a

149

00:09:43,009 --> 00:09:40,860

little bit of a delay today can you talk

150

00:09:45,949 --> 00:09:43,019

walk us through some of that so we had a

151

00:09:48,230 --> 00:09:45,959

couple little delays on uh some

152

00:09:49,790 --> 00:09:48,240

observers we need many observers to

153

00:09:52,790 --> 00:09:49,800

watch us going out to make sure we don't

154

00:09:55,070 --> 00:09:52,800

hit anything so as you can see from all

155

00:09:56,449 --> 00:09:55,080

those platforms up there uh sometimes it

156

00:09:58,610 --> 00:09:56,459

takes a while for the people to get to

157

00:10:00,410 --> 00:09:58,620

those platforms so that held us up for a

158

00:10:01,970 --> 00:10:00,420

little bit and then there was a piece of

159

00:10:04,730 --> 00:10:01,980

environmental control system ductwork

160

00:10:07,009 --> 00:10:04,740

that was in the way that was moved and

161

00:10:09,110 --> 00:10:07,019

then we lifted up to 18 inches over the

162

00:10:10,550 --> 00:10:09,120

mounts and now we're crawling and now

163

00:10:13,370 --> 00:10:10,560

we're crawling and I think it was about

164

00:10:15,050 --> 00:10:13,380

5 47 p.m when I got first where we were

165

00:10:16,850 --> 00:10:15,060

moving let's turn around and take a look

166

00:10:19,130 --> 00:10:16,860

at this it is crawling you can see that

167

00:10:21,170 --> 00:10:19,140

it's it's moved quite a bit yes how do

168

00:10:23,509 --> 00:10:21,180

you feel knowing that you're a part of

169

00:10:25,130 --> 00:10:23,519

this team that's making this happen and

170

00:10:28,550 --> 00:10:25,140

we're returning to the Moon soon yeah

171

00:10:31,490 --> 00:10:28,560

it's it's almost Indescribable uh I've

172

00:10:33,350 --> 00:10:31,500

waited a decade for this since we first

173

00:10:36,590 --> 00:10:33,360

started modifying this crawler and

174

00:10:38,810 --> 00:10:36,600

getting ready for this so we are ready

175

00:10:41,150 --> 00:10:38,820

this is so exciting and even though it's

176

00:10:43,190 --> 00:10:41,160

a bit of a long ride out to the pad I'm

177

00:10:44,690 --> 00:10:43,200

looking forward to every bit of it let's

178

00:10:47,150 --> 00:10:44,700

talk about this crawler and impressive

179

00:10:50,389 --> 00:10:47,160

machine it was built in the 60s

180

00:10:53,329 --> 00:10:50,399

yes it was and the fact that we are

181

00:10:55,430 --> 00:10:53,339

still using that today is a testament to

182

00:10:57,650 --> 00:10:55,440

all the people that work on it all the

183

00:10:59,690 --> 00:10:57,660

people that maintain it we have lots of

184

00:11:02,090 --> 00:10:59,700

experience with this we have lots of

185

00:11:03,829 --> 00:11:02,100

talented technicians who keep this thing

186

00:11:05,150 --> 00:11:03,839

going and maintained and that's the

187

00:11:07,970 --> 00:11:05,160

reason we're still using this piece of

188

00:11:09,590 --> 00:11:07,980

equipment that's 57 years old and we can

189

00:11:11,509 --> 00:11:09,600

see some of the video right here I mean

190

00:11:13,250 --> 00:11:11,519

this is the crawler that took out we're

191

00:11:15,410 --> 00:11:13,260

talking about shuttle missions Apollo

192

00:11:19,069 --> 00:11:15,420

missions talk to us about that every

193

00:11:24,050 --> 00:11:19,079

single Mission so launch pad's 39 A and

194

00:11:26,269 --> 00:11:24,060

B all the Apollo missions Sky lab all

195

00:11:28,250 --> 00:11:26,279

the shuttle missions constellation and

196

00:11:31,250 --> 00:11:28,260

now SLS everything that launched there

197

00:11:33,290 --> 00:11:31,260

rode on one of our two crawlers wow it's

198

00:11:34,790 --> 00:11:33,300

it's the only way to get to the pad yeah

199

00:11:37,130 --> 00:11:34,800

because they Goosebumps thinking about

200

00:11:39,230 --> 00:11:37,140

it the rich history here it's giving me

201  
00:11:40,910 --> 00:11:39,240  
goosebumps too you talk about uh the

202  
00:11:42,710 --> 00:11:40,920  
fact that there needed to be a number of

203  
00:11:45,170 --> 00:11:42,720  
modifications right to make sure that we

204  
00:11:48,530 --> 00:11:45,180  
could support SLS and Orion

205  
00:11:50,690 --> 00:11:48,540  
so at the end of shuttle they came to us

206  
00:11:52,910 --> 00:11:50,700  
and said we have some new requirements

207  
00:11:55,430 --> 00:11:52,920  
for the SLS program a bunch of

208  
00:11:57,050 --> 00:11:55,440  
requirements but the biggest one was you

209  
00:11:58,730 --> 00:11:57,060  
have to be able to increase the weight

210  
00:12:01,610 --> 00:11:58,740  
you can carry sure so the original

211  
00:12:04,129 --> 00:12:01,620  
design was for 12 million pounds so we

212  
00:12:07,250 --> 00:12:04,139  
did a lot of modifications to the roller

213  
00:12:10,610 --> 00:12:07,260

bearings to the trucks to the brakes to

214

00:12:13,009 --> 00:12:10,620

the our jacking Equalization of leveling

215

00:12:14,990 --> 00:12:13,019

cylinders everything so we can now lift

216

00:12:17,329 --> 00:12:15,000

18 million pounds that is a lot of

217

00:12:19,790 --> 00:12:17,339

weight 50 increase over the original

218

00:12:21,530 --> 00:12:19,800

design wow and you guys did that you

219

00:12:22,970 --> 00:12:21,540

made that happen you know I also read an

220

00:12:25,430 --> 00:12:22,980

interesting stat that the top of the

221

00:12:27,590 --> 00:12:25,440

crawler the surface there is the size of

222

00:12:29,990 --> 00:12:27,600

a baseball diamond that is unbelievable

223

00:12:32,990 --> 00:12:30,000

and the fact that somebody is driving

224

00:12:35,569 --> 00:12:33,000

something that size right now so that

225

00:12:37,370 --> 00:12:35,579

comes from the the bases on a Major

226  
00:12:40,610 --> 00:12:37,380  
League Baseball Field are 90 feet apart

227  
00:12:42,350 --> 00:12:40,620  
so the four locations where we intersect

228  
00:12:45,590 --> 00:12:42,360  
or where we mate with the mobile

229  
00:12:47,269 --> 00:12:45,600  
launcher are 90 feet apart so that is an

230  
00:12:49,850 --> 00:12:47,279  
actual baseball infill but the crawler

231  
00:12:54,110 --> 00:12:49,860  
is actually even bigger well it's 131

232  
00:12:57,470 --> 00:12:54,120  
feet by 114 feet weighs 6.6 million

233  
00:12:58,850 --> 00:12:57,480  
pounds so it's in talking with the

234  
00:13:01,310 --> 00:12:58,860  
drivers it's kind of like driving a

235  
00:13:02,990 --> 00:13:01,320  
super tanker yeah it doesn't stop fast

236  
00:13:04,490 --> 00:13:03,000  
it doesn't move fast you have to think

237  
00:13:08,269 --> 00:13:04,500  
way ahead when you're going to make

238  
00:13:09,590 --> 00:13:08,279

turns and and everything is just

239

00:13:10,970 --> 00:13:09,600

we need a lot of people to do that

240

00:13:12,350 --> 00:13:10,980

challenging and a lot of people have

241

00:13:14,329 --> 00:13:12,360

many different jobs to make sure an

242

00:13:15,769 --> 00:13:14,339

operation like this goes according to

243

00:13:18,350 --> 00:13:15,779

plan can you talk to us about some other

244

00:13:20,210 --> 00:13:18,360

jobs so other than the drivers we have

245

00:13:22,389 --> 00:13:20,220

Engineers that are monitoring all the

246

00:13:24,470 --> 00:13:22,399

systems in the control room we have

247

00:13:26,410 --> 00:13:24,480

technicians electrical technicians

248

00:13:30,530 --> 00:13:26,420

mechanical technicians diesel

249

00:13:33,050 --> 00:13:30,540

technicians mechanics we have Logistics

250

00:13:34,850 --> 00:13:33,060

Personnel in case we need parts we have

251  
00:13:36,470 --> 00:13:34,860  
lots of observers everywhere because the

252  
00:13:38,090 --> 00:13:36,480  
driver can't see everything as he's

253  
00:13:41,210 --> 00:13:38,100  
driving so we need other people to

254  
00:13:43,310 --> 00:13:41,220  
follow us and walk with us and tell us

255  
00:13:44,870 --> 00:13:43,320  
we need to start turning here we need to

256  
00:13:46,670 --> 00:13:44,880  
slow down there so everybody's on

257  
00:13:48,230 --> 00:13:46,680  
headsets like we are and they're all

258  
00:13:50,870 --> 00:13:48,240  
talking to each other it's it's a huge

259  
00:13:52,670 --> 00:13:50,880  
undertaking and that's why you know

260  
00:13:53,930 --> 00:13:52,680  
obviously it's going to take quite a bit

261  
00:13:55,850 --> 00:13:53,940  
to get to the launch pad and we're

262  
00:13:57,470 --> 00:13:55,860  
looking at 11 hour journey by the time

263  
00:13:58,850 --> 00:13:57,480

it finally reaches the launch pad but

264

00:14:00,650 --> 00:13:58,860

now that you've explained that I

265

00:14:02,030 --> 00:14:00,660

absolutely understand why it has to take

266

00:14:03,769 --> 00:14:02,040

quite a bit thank you so much John

267

00:14:05,210 --> 00:14:03,779

you're very welcome good luck with the

268

00:14:07,850 --> 00:14:05,220

rest of the rollout I can't wait to see

269

00:14:10,189 --> 00:14:07,860

it on the pad thank you now the Artemis

270

00:14:12,530 --> 00:14:10,199

program is named after Artemis of Greek

271

00:14:15,230 --> 00:14:12,540

mythology she was Apollo's twin sister

272

00:14:17,150 --> 00:14:15,240

and the goddess of the moon Artemis 1

273

00:14:19,730 --> 00:14:17,160

will build on the achievements of those

274

00:14:21,829 --> 00:14:19,740

who came before us and create a

275

00:14:27,170 --> 00:14:21,839

permanent presence on the moon and

276

00:14:34,370 --> 00:14:30,730

we are going

277

00:14:37,189 --> 00:14:34,380

the history of this agency is marked

278

00:14:38,590 --> 00:14:37,199

with broken barriers once viewed as

279

00:14:42,769 --> 00:14:38,600

impossible

280

00:14:45,650 --> 00:14:42,779

with science fiction turned reality with

281

00:14:47,689 --> 00:14:45,660

innovations that have spun Industries

282

00:14:52,430 --> 00:14:47,699

all their own

283

00:14:55,090 --> 00:14:52,440

and with demonstrations of Peace for all

284

00:15:00,110 --> 00:14:55,100

humankind

285

00:15:03,590 --> 00:15:00,120

we soar in the skies of our home planet

286

00:15:07,069 --> 00:15:03,600

we maintain a human presence just

287

00:15:10,970 --> 00:15:07,079

outside of gravity and we touch points

288

00:15:13,189 --> 00:15:10,980

all across the solar system and beyond

289

00:15:15,670 --> 00:15:13,199

we're going back to the Moon

290

00:15:18,410 --> 00:15:15,680

this is why

291

00:15:21,230 --> 00:15:18,420

the Moon is a treasure Trove of science

292

00:15:24,050 --> 00:15:21,240

it holds opportunities for us to make

293

00:15:27,050 --> 00:15:24,060

discoveries about our own Planet about

294

00:15:28,550 --> 00:15:27,060

our sun and about our solar system the

295

00:15:30,769 --> 00:15:28,560

wealth of knowledge to be gleaned from

296

00:15:34,129 --> 00:15:30,779

the moon will inspire a new generation

297

00:15:36,410 --> 00:15:34,139

of thought and action without fail every

298

00:15:38,749 --> 00:15:36,420

major program and mission NASA has

299

00:15:40,490 --> 00:15:38,759

invested in has led to Technologies and

300

00:15:42,829 --> 00:15:40,500

capabilities that have shaped our

301  
00:15:45,710 --> 00:15:42,839  
culture the breakthroughs of the Artemis

302  
00:15:48,290 --> 00:15:45,720  
era will Define Our Generation and the

303  
00:15:49,970 --> 00:15:48,300  
generations to follow the tens of

304  
00:15:52,370 --> 00:15:49,980  
thousands of jobs associated with

305  
00:15:54,710 --> 00:15:52,380  
propelling us to the Moon today are just

306  
00:15:56,930 --> 00:15:54,720  
the beginning of a lunar economy that

307  
00:15:59,810 --> 00:15:56,940  
will see hundreds of thousands of new

308  
00:16:01,850 --> 00:15:59,820  
jobs developed around the world this is

309  
00:16:04,310 --> 00:16:01,860  
not an ambition of one entity or one

310  
00:16:07,310 --> 00:16:04,320  
country the exploration of the moon is a

311  
00:16:09,530 --> 00:16:07,320  
shared effort woven together by a desire

312  
00:16:12,350 --> 00:16:09,540  
for the greater good why the moon

313  
00:16:14,810 --> 00:16:12,360

because the missions of Tomorrow Will Be

314

00:16:17,509 --> 00:16:14,820

sparked by the accomplishments of the

315

00:16:20,870 --> 00:16:17,519

Artemis generation today because the

316

00:16:22,850 --> 00:16:20,880

ambition to go has already begun and

317

00:16:24,230 --> 00:16:22,860

because Mars is calling we need to learn

318

00:16:27,050 --> 00:16:24,240

what it takes to establish a community

319

00:16:30,069 --> 00:16:27,060

upon another Cosmic Shore so let's get

320

00:16:34,009 --> 00:16:30,079

close before pushing out

321

00:16:37,329 --> 00:16:34,019

and so we go to the moon now not as a

322

00:16:40,970 --> 00:16:37,339

series of isolated missions

323

00:16:44,389 --> 00:16:40,980

but to build a community on and around

324

00:16:47,449 --> 00:16:44,399

the Moon capable of proving how to live

325

00:16:49,590 --> 00:16:47,459

on other worlds

326

00:16:51,790 --> 00:16:49,600

foreign

327

00:16:54,650 --> 00:16:51,800

[Music]

328

00:16:57,650 --> 00:16:54,660

s for more than 50 years of peaceful

329

00:17:00,230 --> 00:16:57,660

exploration to send a new generation to

330

00:17:02,150 --> 00:17:00,240

the lunar surface to stay we will anchor

331

00:17:03,889 --> 00:17:02,160

our efforts on the lunar South Pole to

332

00:17:06,470 --> 00:17:03,899

establish the artemis-based camp

333

00:17:09,650 --> 00:17:06,480

positioning us for long-term science and

334

00:17:11,630 --> 00:17:09,660

exploration of the lunar service we will

335

00:17:14,449 --> 00:17:11,640

prove what it takes to assemble a

336

00:17:15,970 --> 00:17:14,459

complex ship in deep space we will

337

00:17:20,029 --> 00:17:15,980

perfect

338

00:17:22,610 --> 00:17:20,039

and returning from a distance we will

339

00:17:25,189 --> 00:17:22,620

learn how humans can survive and thrive

340

00:17:26,929 --> 00:17:25,199

in a partial gravity environment with

341

00:17:29,270 --> 00:17:26,939

improved spacesuit designs mobile

342

00:17:31,490 --> 00:17:29,280

habitats and the reconnaissance robots

343

00:17:33,529 --> 00:17:31,500

pre-positioning and relocated supplies

344

00:17:36,350 --> 00:17:33,539

we will learn how to utilize the

345

00:17:38,450 --> 00:17:36,360

resources we find others starting with

346

00:17:40,730 --> 00:17:38,460

finding water ice and purifying it to

347

00:17:44,210 --> 00:17:40,740

drinkable water you can find that into

348

00:17:46,850 --> 00:17:44,220

hydrogen and oxygen to meet we will

349

00:17:48,770 --> 00:17:46,860

establish Vision power plants on the

350

00:17:51,230 --> 00:17:48,780

surface of the Moon capable of

351  
00:17:53,690 --> 00:17:51,240  
supporting a growing community events

352  
00:17:55,610 --> 00:17:53,700  
and we will spam the logistics supply

353  
00:17:58,250 --> 00:17:55,620  
chain to enable commercial and

354  
00:18:01,870 --> 00:17:58,260  
international Partners to resupply and

355  
00:18:06,710 --> 00:18:01,880  
refuel deep space outposts

356  
00:18:09,110 --> 00:18:06,720  
none of this is simple or easy but

357  
00:18:11,650 --> 00:18:09,120  
nothing in our history ever has been

358  
00:18:14,409 --> 00:18:11,660  
[Music]

359  
00:18:17,390 --> 00:18:14,419  
blue we're breathing again thanks a lot

360  
00:18:20,150 --> 00:18:17,400  
this kind of continuous lunar presence

361  
00:18:22,930 --> 00:18:20,160  
is a natural extension of all that we've

362  
00:18:26,150 --> 00:18:22,940  
learned in low earth orbit

363  
00:18:28,909 --> 00:18:26,160

and what we will accomplish there will

364

00:18:31,510 --> 00:18:28,919

ensure the Monumental missions to Mars

365

00:18:34,789 --> 00:18:31,520

are within reach

366

00:18:37,730 --> 00:18:34,799

as we ready the launch of the first

367

00:18:40,370 --> 00:18:37,740

Artemis Mission and as commercial

368

00:18:44,990 --> 00:18:40,380

companies ready their lunar Landers for

369

00:18:59,810 --> 00:18:45,000

the first private payload deliveries we

370

00:19:04,310 --> 00:19:01,430

everyone take a look at your screen

371

00:19:06,950 --> 00:19:04,320

right now that right there is SLS and

372

00:19:09,230 --> 00:19:06,960

Orion and it is outside of the Vehicle

373

00:19:11,930 --> 00:19:09,240

Assembly Building for the first time

374

00:19:14,750 --> 00:19:11,940

ever it is giving me goosebumps just to

375

00:19:17,630 --> 00:19:14,760

say that seeing it poised there this is

376

00:19:21,169 --> 00:19:17,640

a historic moment a big moment we will

377

00:19:22,850 --> 00:19:21,179

remember this day for a very very long

378

00:19:25,789 --> 00:19:22,860

time again that's a wide shot we have

379

00:19:28,789 --> 00:19:25,799

there you can see it outside again that

380

00:19:31,789 --> 00:19:28,799

iconic Vehicle Assembly Building we have

381

00:19:34,190 --> 00:19:31,799

seen Apollo Rockets out of there we have

382

00:19:36,950 --> 00:19:34,200

seen shuttles come out of there now it

383

00:19:38,930 --> 00:19:36,960

is time for SLS and Orion

384

00:19:40,970 --> 00:19:38,940

crews are moving at all to the pad today

385

00:19:43,430 --> 00:19:40,980

for a critical test that will take place

386

00:19:45,710 --> 00:19:43,440

in two weeks and joining me now to talk

387

00:19:47,810 --> 00:19:45,720

about that test is Cliff Lanham he is

388

00:19:50,090 --> 00:19:47,820

the senior vehicle operations manager

389

00:19:52,970 --> 00:19:50,100

also with NASA's EGS at Kennedy Cliff

390

00:19:55,130 --> 00:19:52,980

what an exciting day oh you can't

391

00:19:57,770 --> 00:19:55,140

imagine for this team um we have been

392

00:20:00,470 --> 00:19:57,780

working really hard over the last 14

393

00:20:02,450 --> 00:20:00,480

months to get to this point and uh the

394

00:20:04,669 --> 00:20:02,460

team is beyond excited we're ready to

395

00:20:06,950 --> 00:20:04,679

get uh get out to the pad there's 21

396

00:20:08,450 --> 00:20:06,960

million pounds of Hardware between the

397

00:20:11,149 --> 00:20:08,460

crawler and the mobile launcher and the

398

00:20:13,130 --> 00:20:11,159

Artemis headed out to the pad so we're

399

00:20:14,930 --> 00:20:13,140

ready to go this must be means so much

400

00:20:17,270 --> 00:20:14,940

to your team I mean you guys are in

401  
00:20:19,549 --> 00:20:17,280  
charge of really everything right talk

402  
00:20:21,230 --> 00:20:19,559  
to me about what EGS is yeah so EGS

403  
00:20:23,090 --> 00:20:21,240  
exploration ground systems is one of the

404  
00:20:25,250 --> 00:20:23,100  
three sister programs that's responsible

405  
00:20:27,289 --> 00:20:25,260  
for getting us back to the moon and uh

406  
00:20:29,450 --> 00:20:27,299  
from our standpoint we are responsible

407  
00:20:30,830 --> 00:20:29,460  
for development of the pad uh the mobile

408  
00:20:33,590 --> 00:20:30,840  
launcher

409  
00:20:35,210 --> 00:20:33,600  
um the uh crawler and doing all the

410  
00:20:37,250 --> 00:20:35,220  
facilities in the ground support

411  
00:20:39,169 --> 00:20:37,260  
equipment that's responsible for uh

412  
00:20:41,210 --> 00:20:39,179  
supporting build up and testing of the

413  
00:20:42,890 --> 00:20:41,220

rocket so we do that but in addition to

414

00:20:44,630 --> 00:20:42,900

that we're responsible for operations as

415

00:20:47,029 --> 00:20:44,640

far as assembly test and check out of

416

00:20:48,770 --> 00:20:47,039

the rocket we also are responsible for

417

00:20:50,870 --> 00:20:48,780

launching the rocket and then we're also

418

00:20:52,490 --> 00:20:50,880

responsible for Recovery of the crew

419

00:20:54,350 --> 00:20:52,500

module out in the Pacific um after

420

00:20:56,390 --> 00:20:54,360

Splashdown that's a lot so this is the

421

00:20:58,130 --> 00:20:56,400

start of a lot that we are looking

422

00:20:59,990 --> 00:20:58,140

forward to that's wonderful and you know

423

00:21:02,450 --> 00:21:00,000

now the rocket is on its way to Historic

424

00:21:04,909 --> 00:21:02,460

launch pad 39b yeah a lot of Rich

425

00:21:06,950 --> 00:21:04,919

history there right oh absolutely 39b

426

00:21:09,110 --> 00:21:06,960

actually it's where Apollo 10 the

427

00:21:11,750 --> 00:21:09,120

precursor for Apollo 11 the first moon

428

00:21:13,730 --> 00:21:11,760

landing started we've done three Skylab

429

00:21:16,430 --> 00:21:13,740

launches from the there 51 shuttle

430

00:21:18,710 --> 00:21:16,440

launches and also a constellation test

431

00:21:20,870 --> 00:21:18,720

launch so a lot of action has occurred

432

00:21:22,909 --> 00:21:20,880

out there at Pat 39b so it's head Ed up

433

00:21:24,710 --> 00:21:22,919

there for a wet dress rehearsal can you

434

00:21:26,270 --> 00:21:24,720

tell people what that is absolutely a

435

00:21:27,529 --> 00:21:26,280

white dress rehearsal is a major test

436

00:21:30,590 --> 00:21:27,539

for us where we're actually going to

437

00:21:33,110 --> 00:21:30,600

load 700 over 700 000 gallons of

438

00:21:35,390 --> 00:21:33,120

propellant liquid hydrogen liquid oxygen

439

00:21:38,750 --> 00:21:35,400

into both the first and second stages so

440

00:21:40,430 --> 00:21:38,760

the SLS and the icps in this case the

441

00:21:42,409 --> 00:21:40,440

team will run through a countdown so

442

00:21:44,870 --> 00:21:42,419

they'll start about eight hours prior to

443

00:21:46,669 --> 00:21:44,880

what is called t0 and they'll actually

444

00:21:48,409 --> 00:21:46,679

go through their procedures for a

445

00:21:51,110 --> 00:21:48,419

countdown they'll get down below a

446

00:21:53,630 --> 00:21:51,120

minute and they'll recycle that count to

447

00:21:55,549 --> 00:21:53,640

practice that as well up to 10 minutes

448

00:21:57,470 --> 00:21:55,559

and then they'll count back down to less

449

00:21:59,750 --> 00:21:57,480

than 10 seconds or they'll stop the test

450

00:22:02,090 --> 00:21:59,760

and um and that'll be the end of test

451  
00:22:04,310 --> 00:22:02,100  
drain the vehicle and evaluate the

452  
00:22:06,529 --> 00:22:04,320  
information and see how we did yeah so

453  
00:22:08,570 --> 00:22:06,539  
you guys have to have a successful wet

454  
00:22:11,210 --> 00:22:08,580  
dress rehearsal right before we can

455  
00:22:12,890 --> 00:22:11,220  
announce a date for Artemis one launch

456  
00:22:14,810 --> 00:22:12,900  
correct correct so what they'll do

457  
00:22:17,029 --> 00:22:14,820  
they'll spend a week or two evaluating

458  
00:22:18,230 --> 00:22:17,039  
data they'll know pretty soon during the

459  
00:22:20,750 --> 00:22:18,240  
test yeah hey we're meeting our

460  
00:22:22,310 --> 00:22:20,760  
objectives but it will take probably

461  
00:22:24,529 --> 00:22:22,320  
um you know one to two weeks before

462  
00:22:26,270 --> 00:22:24,539  
they'll be ready to say hey the the test

463  
00:22:27,470 --> 00:22:26,280

is fully successful and we're ready to

464

00:22:28,789 --> 00:22:27,480

start thinking about setting a launch

465

00:22:34,190 --> 00:22:28,799

date okay

466

00:22:38,270 --> 00:22:36,470

absolutely we're very excited about it

467

00:22:40,010 --> 00:22:38,280

and again this is the next big milestone

468

00:22:41,270 --> 00:22:40,020

for us getting to the moon so yeah well

469

00:22:42,409 --> 00:22:41,280

good luck with everything good luck with

470

00:22:44,210 --> 00:22:42,419

the white dress good luck with the rest

471

00:22:45,830 --> 00:22:44,220

of the rollout and and I'm excited I

472

00:22:47,930 --> 00:22:45,840

hope you are too I am too absolutely

473

00:22:50,210 --> 00:22:47,940

perfect thank you so much I appreciate

474

00:22:52,070 --> 00:22:50,220

it all right we're now about 25 minutes

475

00:22:54,409 --> 00:22:52,080

until rollout and we're seeing more and

476  
00:22:57,350 --> 00:22:54,419  
more of the crawler the mobile launcher

477  
00:22:59,149 --> 00:22:57,360  
SLS Orion wow look at that bear what a

478  
00:23:00,409 --> 00:22:59,159  
beautiful view and I do want to talk a

479  
00:23:02,149 --> 00:23:00,419  
little bit about the mobile launcher

480  
00:23:06,169 --> 00:23:02,159  
there that's that structure that you see

481  
00:23:09,110 --> 00:23:06,179  
that's holding up the rocket and the

482  
00:23:11,750 --> 00:23:09,120  
capsule so the mobile launcher or ml is

483  
00:23:14,149 --> 00:23:11,760  
what fully assembled and processed SLS

484  
00:23:16,909 --> 00:23:14,159  
and Orion the crawler is going to leave

485  
00:23:19,630 --> 00:23:16,919  
both the ML and the integrated rocket on

486  
00:23:22,789 --> 00:23:19,640  
the pad because the ml will supply

487  
00:23:25,390 --> 00:23:22,799  
IsIs and Orion with things like power

488  
00:23:29,330 --> 00:23:25,400

Communications and fuel before launch

489

00:23:31,970 --> 00:23:29,340

and then SLS will lift off from the ML

490

00:23:33,710 --> 00:23:31,980

and when we fly crew on later Artemis

491

00:23:36,289 --> 00:23:33,720

missions they will use a walkway called

492

00:23:39,770 --> 00:23:36,299

The Crew access arm on the mobile

493

00:23:41,510 --> 00:23:39,780

launcher to get into Orion

494

00:23:43,070 --> 00:23:41,520

now like the crawler there are a lot of

495

00:23:45,649 --> 00:23:43,080

people on the mobile launcher right now

496

00:23:47,570 --> 00:23:45,659

there are about 65 people allowed to be

497

00:23:49,970 --> 00:23:47,580

on there during this operation and

498

00:23:52,190 --> 00:23:49,980

they'll go on and off as needed people

499

00:23:54,950 --> 00:23:52,200

like Engineers technicians safety

500

00:23:56,930 --> 00:23:54,960

personnel and the two elevators on the

501  
00:23:59,450 --> 00:23:56,940  
ml this is really interesting they will

502  
00:24:01,490 --> 00:23:59,460  
be turned off for this operation so if

503  
00:24:04,370 --> 00:24:01,500  
anyone needs to go to the very top there

504  
00:24:05,990 --> 00:24:04,380  
that is going to be quite the walk

505  
00:24:08,029 --> 00:24:06,000  
all right how about we check back in

506  
00:24:10,190 --> 00:24:08,039  
with the crowd outside you know we had

507  
00:24:13,070 --> 00:24:10,200  
some rain yesterday but luckily the

508  
00:24:15,289 --> 00:24:13,080  
weather today is gorgeous dry sunny

509  
00:24:17,930 --> 00:24:15,299  
beautiful you know so many people

510  
00:24:21,590 --> 00:24:17,940  
excited to witness this historic rollout

511  
00:24:23,390 --> 00:24:21,600  
again I'm told nearly 10 000 people are

512  
00:24:25,730 --> 00:24:23,400  
out here many of them Kennedy Space

513  
00:24:29,090 --> 00:24:25,740

Center employees with their family and

514

00:24:33,409 --> 00:24:29,100

friends right now they can see again all

515

00:24:36,590 --> 00:24:33,419

of SLS and Orion and its Glory it's just

516

00:24:40,130 --> 00:24:36,600

a beautiful sight and for those out here

517

00:24:41,990 --> 00:24:40,140

today it is a very lucky and blessed

518

00:24:43,430 --> 00:24:42,000

opportunity to get to see this outside

519

00:24:45,649 --> 00:24:43,440

of the VAB

520

00:24:47,750 --> 00:24:45,659

coming up we're going to hear from Janet

521

00:24:50,210 --> 00:24:47,760

Petro she's our Kennedy Space Center

522

00:24:52,250 --> 00:24:50,220

Director and after her we'll have NASA

523

00:24:54,950 --> 00:24:52,260

administrator Bill Nelson but first

524

00:24:57,890 --> 00:24:54,960

another special musical performance this

525

00:25:00,350 --> 00:24:57,900

time returned to the moon and homage to

526  
00:25:02,810 --> 00:25:00,360  
Artemis performed by the University of

527  
00:25:08,100 --> 00:25:02,820  
Central Florida's symphonic brass and

528  
00:25:57,010 --> 00:25:17,810  
[Music]

529  
00:26:29,520 --> 00:25:59,560  
thank you

530  
00:26:47,210 --> 00:26:40,790  
[Music]

531  
00:26:57,780 --> 00:26:48,289  
thank you

532  
00:27:25,750 --> 00:26:59,870  
[Applause]

533  
00:27:25,760 --> 00:27:32,570  
thank you

534  
00:27:32,580 --> 00:27:48,590  
[Music]

535  
00:28:31,990 --> 00:27:50,690  
foreign

536  
00:28:54,180 --> 00:28:34,010  
thank you

537  
00:28:56,910 --> 00:28:54,190  
[Music]

538  
00:29:02,760 --> 00:28:56,920

[Applause]

539

00:29:04,630 --> 00:29:02,770

[Music]

540

00:29:08,690 --> 00:29:04,640

[Applause]

541

00:29:08,700 --> 00:29:20,830

foreign

542

00:29:26,750 --> 00:29:24,110

well good evening Kennedy Space Center

543

00:29:28,909 --> 00:29:26,760

thank you all for joining us for this

544

00:29:31,669 --> 00:29:28,919

historic event and I think an emotional

545

00:29:34,850 --> 00:29:31,679

event for a lot of us out here today I

546

00:29:37,909 --> 00:29:34,860

am so happy that so many joining us

547

00:29:39,889 --> 00:29:37,919

today with our Workforce our loved ones

548

00:29:42,110 --> 00:29:39,899

are joining us out here today as many of

549

00:29:45,110 --> 00:29:42,120

you also have made so many sacrifices

550

00:29:47,389 --> 00:29:45,120

over the years to get to this milestone

551  
00:29:50,389 --> 00:29:47,399  
this year Kennedy Space Center

552  
00:29:53,330 --> 00:29:50,399  
celebrates 60 years supporting America's

553  
00:29:56,330 --> 00:29:53,340  
space program and as we take some time

554  
00:29:58,850 --> 00:29:56,340  
to reflect on the six Decades of Science

555  
00:29:59,870 --> 00:29:58,860  
and exploration it really seems fitting

556  
00:30:03,470 --> 00:29:59,880  
that we

557  
00:30:06,049 --> 00:30:03,480  
look ahead celebrate this Milestone our

558  
00:30:08,870 --> 00:30:06,059  
first step to returning to the Moon

559  
00:30:11,330 --> 00:30:08,880  
you know every single vehicle that has

560  
00:30:14,210 --> 00:30:11,340  
carried humans beyond the bounds of low

561  
00:30:16,610 --> 00:30:14,220  
earth orbit has undergone integration

562  
00:30:19,789 --> 00:30:16,620  
and testing in that vehicle Assembly

563  
00:30:21,529 --> 00:30:19,799

Building crawled down this roadway and

564

00:30:22,730 --> 00:30:21,539

launched right here from the Kennedy

565

00:30:25,909 --> 00:30:22,740

Space Center

566

00:30:28,310 --> 00:30:25,919

tonight after years of meticulous

567

00:30:31,549 --> 00:30:28,320

Planning Development

568

00:30:34,070 --> 00:30:31,559

integration testing the space launch

569

00:30:36,289 --> 00:30:34,080

system mated with the Orion spacecraft

570

00:30:38,930 --> 00:30:36,299

will continue this proud tradition

571

00:30:41,149 --> 00:30:38,940

leaving the VAB as you see in front of

572

00:30:44,450 --> 00:30:41,159

you to make its way to the pad for the

573

00:30:46,909 --> 00:30:44,460

very first time and just as all eyes are

574

00:30:49,669 --> 00:30:46,919

on the SLS tonight as it makes its

575

00:30:52,190 --> 00:30:49,679

journey in a few short weeks all eyes

576

00:30:54,169 --> 00:30:52,200

are going to be on the sky as it rocks

577

00:30:56,450 --> 00:30:54,179

the space coast and takes its Maiden

578

00:30:57,470 --> 00:30:56,460

flight around the moon and then comes

579

00:30:59,870 --> 00:30:57,480

back

580

00:31:02,149 --> 00:30:59,880

you know 60 years ago Kennedy Space

581

00:31:04,430 --> 00:31:02,159

Center was established to meet the

582

00:31:07,370 --> 00:31:04,440

challenge of Landing a man on the moon

583

00:31:09,590 --> 00:31:07,380

and returning him safely to Earth

584

00:31:12,230 --> 00:31:09,600

through Artemis we will see the first

585

00:31:15,049 --> 00:31:12,240

woman and the first person of color on

586

00:31:17,389 --> 00:31:15,059

the lunar surface will develop and

587

00:31:19,730 --> 00:31:17,399

implement the science necessary for a

588

00:31:22,490 --> 00:31:19,740

long-term human presence in deep space

589

00:31:24,830 --> 00:31:22,500

and we will utilize this knowledge to

590

00:31:28,070 --> 00:31:24,840

prepare for future human missions to

591

00:31:30,649 --> 00:31:28,080

Mars today we honor that Legacy

592

00:31:32,990 --> 00:31:30,659

for those who paved the way before us

593

00:31:35,810 --> 00:31:33,000

and could and and as we blaze a new

594

00:31:38,269 --> 00:31:35,820

Trail and contribute to a new chapter in

595

00:31:39,649 --> 00:31:38,279

our history of our nation and of this

596

00:31:42,110 --> 00:31:39,659

agency

597

00:31:43,909 --> 00:31:42,120

it's now my pleasure to introduce you

598

00:31:46,310 --> 00:31:43,919

tonight to someone who has served in

599

00:31:49,430 --> 00:31:46,320

public office for over four decades

600

00:31:51,230 --> 00:31:49,440

first in the state legislature then as a

601  
00:31:53,930 --> 00:31:51,240  
U.S congressman then as a state

602  
00:31:56,630 --> 00:31:53,940  
treasurer he was elected three times to

603  
00:31:59,450 --> 00:31:56,640  
the United States Senate and Senate and

604  
00:32:03,769 --> 00:31:59,460  
represents my home state of Florida for

605  
00:32:05,570 --> 00:32:03,779  
18 years and in 1986 he flew on the 24th

606  
00:32:08,750 --> 00:32:05,580  
Flight of the Space Shuttle where he

607  
00:32:11,930 --> 00:32:08,760  
served as a payload specialist on SDs 61

608  
00:32:14,149 --> 00:32:11,940  
aboard space shuttle Columbia his

609  
00:32:16,850 --> 00:32:14,159  
passion and his commitment to the agency

610  
00:32:19,130 --> 00:32:16,860  
and its Mission are helping NASA to

611  
00:32:21,529 --> 00:32:19,140  
continue to advance the frontiers of

612  
00:32:24,649 --> 00:32:21,539  
knowledge and exploration so please help

613  
00:32:32,750 --> 00:32:24,659

me and join in welcoming our NASA

614

00:32:32,760 --> 00:32:35,029

thank you

615

00:32:41,169 --> 00:32:37,250

ladies and gentlemen

616

00:32:44,010 --> 00:32:41,179

the world's most powerful

617

00:32:44,290 --> 00:32:44,020

rocket ever right here

618

00:32:49,850 --> 00:32:44,300

[Music]

619

00:32:57,409 --> 00:32:52,730

and it's back to the moon and then on to

620

00:33:04,850 --> 00:33:00,889

let's hear it for the musicians at the

621

00:33:04,860 --> 00:33:09,289

foreign

622

00:33:15,169 --> 00:33:12,710

I want to give a shout out to the more

623

00:33:17,149 --> 00:33:15,179

than two dozen members of the crawler

624

00:33:21,830 --> 00:33:17,159

transporter team

625

00:33:23,630 --> 00:33:21,840

they are transporting SLS out to the

626  
00:33:27,470 --> 00:33:23,640  
launch pad

627  
00:33:29,870 --> 00:33:27,480  
and the team is led by Bob Myers who is

628  
00:33:33,649 --> 00:33:29,880  
at the wheel of the crawler

629  
00:33:35,750 --> 00:33:33,659  
Across the Nation are sacred sites that

630  
00:33:36,950 --> 00:33:35,760  
capture the spirit of America's

631  
00:33:39,350 --> 00:33:36,960  
character

632  
00:33:42,049 --> 00:33:39,360  
and one of those places is right here

633  
00:33:44,889 --> 00:33:42,059  
the Kennedy Space Center

634  
00:33:48,250 --> 00:33:44,899  
at these launch pads remarkable

635  
00:33:52,190 --> 00:33:48,260  
individuals achieve Unthinkable things

636  
00:33:55,789 --> 00:33:52,200  
and 60 years ago an American Pioneer

637  
00:33:58,730 --> 00:33:55,799  
propelled upwards to the heavens from

638  
00:34:03,289 --> 00:33:58,740

launch complex 14.

639

00:34:07,930 --> 00:34:03,299

and that legendary Explorer is John

640

00:34:12,169 --> 00:34:07,940

Glenn that spacecraft friendship seven

641

00:34:14,990 --> 00:34:12,179

orbited the Earth three times

642

00:34:18,470 --> 00:34:15,000

and that was the day that America's

643

00:34:21,050 --> 00:34:18,480

Space Program went Full Throttle

644

00:34:23,450 --> 00:34:21,060

it gave way to the Apollo generation

645

00:34:26,089 --> 00:34:23,460

that generation not only landed the

646

00:34:30,430 --> 00:34:26,099

first humans on the moon

647

00:34:33,889 --> 00:34:30,440

it provided the spark that fuels today's

648

00:34:36,950 --> 00:34:33,899

multi-billion dollar satellite industry

649

00:34:40,730 --> 00:34:36,960

it encouraged young Visionaries and

650

00:34:45,649 --> 00:34:40,740

kicked off a technology Revolution

651  
00:34:49,010 --> 00:34:45,659  
the modern Computing era is one example

652  
00:34:51,669 --> 00:34:49,020  
and we are very privileged to have one

653  
00:34:54,909 --> 00:34:51,679  
of those Apollo Astronauts with us

654  
00:35:05,810 --> 00:34:54,919  
General Tom Stafford

655  
00:35:11,930 --> 00:35:08,630  
today a new generation

656  
00:35:15,290 --> 00:35:11,940  
not the Apollo generation but it's the

657  
00:35:17,150 --> 00:35:15,300  
Artemis generation is preparing to reach

658  
00:35:20,510 --> 00:35:17,160  
New Frontiers

659  
00:35:23,990 --> 00:35:20,520  
this generation will return astronauts

660  
00:35:26,089 --> 00:35:24,000  
to the moon and this time we will land

661  
00:35:28,609 --> 00:35:26,099  
the first woman and the first person of

662  
00:35:30,890 --> 00:35:28,619  
color on the surface to conduct

663  
00:35:34,190 --> 00:35:30,900

groundbreaking science

664

00:35:37,849 --> 00:35:34,200

NASA's Artemis program will pave the way

665

00:35:40,670 --> 00:35:37,859

for Humanity's giant leap

666

00:35:42,770 --> 00:35:40,680

future missions to Mars

667

00:35:46,430 --> 00:35:42,780

there's no doubt

668

00:35:50,329 --> 00:35:46,440

that we are in a golden era of human

669

00:35:52,910 --> 00:35:50,339

space exploration Discovery and

670

00:35:56,390 --> 00:35:52,920

Ingenuity in space

671

00:35:59,030 --> 00:35:56,400

and it all begins with Artemis one

672

00:36:02,329 --> 00:35:59,040

the space launch system is the only

673

00:36:03,770 --> 00:36:02,339

rocket capable of sending humans into

674

00:36:06,530 --> 00:36:03,780

deep space

675

00:36:10,270 --> 00:36:06,540

it's the most powerful rocket in the

676

00:36:14,089 --> 00:36:10,280

world and during liftoff it will produce

677

00:36:18,710 --> 00:36:14,099

8.8 million pounds of thrust propelling

678

00:36:20,690 --> 00:36:18,720

the Orion spacecraft about 240 000 miles

679

00:36:24,109 --> 00:36:20,700

to the Moon

680

00:36:27,230 --> 00:36:24,119

and Orion will venture farther than any

681

00:36:30,230 --> 00:36:27,240

spacecraft built for humans that has

682

00:36:33,710 --> 00:36:30,240

ever flown humans it will stay in space

683

00:36:37,190 --> 00:36:33,720

longer than any spacecraft designed for

684

00:36:40,370 --> 00:36:37,200

astronauts that has ever done without

685

00:36:44,569 --> 00:36:40,380

docking to a space station

686

00:36:48,010 --> 00:36:44,579

and after a three-week journey of over

687

00:36:52,010 --> 00:36:48,020

a million miles Orion will come home

688

00:36:53,210 --> 00:36:52,020

faster and hotter than any vehicle has

689

00:36:56,150 --> 00:36:53,220

before

690

00:36:57,770 --> 00:36:56,160

and it wouldn't be possible without all

691

00:37:00,589 --> 00:36:57,780

of you here today

692

00:37:02,329 --> 00:37:00,599

we are joined by thousands of members of

693

00:37:05,690 --> 00:37:02,339

the NASA family

694

00:37:07,130 --> 00:37:05,700

it's because of you that we are here

695

00:37:11,210 --> 00:37:07,140

today

696

00:37:12,849 --> 00:37:11,220

our Workforce has been a Relentless

697

00:37:15,170 --> 00:37:12,859

spirit

698

00:37:16,849 --> 00:37:15,180

we imagine

699

00:37:19,849 --> 00:37:16,859

we build

700

00:37:21,589 --> 00:37:19,859

we never stop pushing the envelope of

701  
00:37:24,230 --> 00:37:21,599  
what is possible

702  
00:37:26,510 --> 00:37:24,240  
I often say

703  
00:37:31,190 --> 00:37:26,520  
that at NASA

704  
00:37:33,770 --> 00:37:31,200  
The Impossible is made possible

705  
00:37:37,670 --> 00:37:33,780  
Artemis one will demonstrate NASA's

706  
00:37:40,010 --> 00:37:37,680  
commission commitment to and capacity to

707  
00:37:43,370 --> 00:37:40,020  
extend Humanity's presence on the moon

708  
00:37:47,150 --> 00:37:43,380  
and Beyond but this mission is not just

709  
00:37:49,730 --> 00:37:47,160  
cementing NASA's leadership in space

710  
00:37:52,490 --> 00:37:49,740  
it's strengthening America's small

711  
00:37:56,270 --> 00:37:52,500  
businesses it's supporting America's

712  
00:37:59,810 --> 00:37:56,280  
universities it's showing the might of

713  
00:38:01,430 --> 00:37:59,820

America's scientists mathematicians and

714

00:38:04,130 --> 00:38:01,440

technicians

715

00:38:07,910 --> 00:38:04,140

Artemis one is possible

716

00:38:09,349 --> 00:38:07,920

because of the contributions from all 50

717

00:38:12,170 --> 00:38:09,359

states

718

00:38:15,829 --> 00:38:12,180

the program is an economic engine for

719

00:38:17,630 --> 00:38:15,839

America in 2019 alone it generated 14

720

00:38:21,230 --> 00:38:17,640

billion dollars

721

00:38:23,329 --> 00:38:21,240

and supported 70 000 good paying jobs

722

00:38:26,990 --> 00:38:23,339

across the country

723

00:38:30,290 --> 00:38:27,000

but to lead in the 21st century

724

00:38:33,530 --> 00:38:30,300

America must not go alone

725

00:38:36,829 --> 00:38:33,540

we must accomplish our goals together

726  
00:38:39,290 --> 00:38:36,839  
Artemis represents Global Ambitions and

727  
00:38:41,150 --> 00:38:39,300  
participation from five International

728  
00:38:44,089 --> 00:38:41,160  
partners

729  
00:38:47,329 --> 00:38:44,099  
the European space agency provides the

730  
00:38:51,490 --> 00:38:47,339  
European service module the PowerHouse

731  
00:38:54,770 --> 00:38:51,500  
of the Orion spacecraft that provides

732  
00:38:59,930 --> 00:38:54,780  
electricity propulsion thermal control

733  
00:39:03,349 --> 00:38:59,940  
air water to Orion in space

734  
00:39:05,990 --> 00:39:03,359  
this is a critical partnership that not

735  
00:39:08,450 --> 00:39:06,000  
just for Artemis one but for the future

736  
00:39:10,670 --> 00:39:08,460  
Artemis missions as well

737  
00:39:12,050 --> 00:39:10,680  
and that's just the beginning

738  
00:39:14,210 --> 00:39:12,060

thanks to the international

739

00:39:18,770 --> 00:39:14,220

collaboration

740

00:39:20,109 --> 00:39:18,780

three so-called passengers will fly on

741

00:39:24,770 --> 00:39:20,119

Orion

742

00:39:27,109 --> 00:39:24,780

Zohar and Helga named by the Israel

743

00:39:31,310 --> 00:39:27,119

space agency and the German Aerospace

744

00:39:34,370 --> 00:39:31,320

Center are two female mannequins

745

00:39:37,730 --> 00:39:34,380

their jobs are to provide data on

746

00:39:41,089 --> 00:39:37,740

radiation levels during the mission

747

00:39:44,089 --> 00:39:41,099

the third passenger is a male mannequin

748

00:39:47,450 --> 00:39:44,099

whose name was decided by more than 300

749

00:39:51,770 --> 00:39:47,460

000 people in a naming contest

750

00:39:53,870 --> 00:39:51,780

and his name is Commander moonachin

751  
00:40:00,010 --> 00:39:53,880  
Campos

752  
00:40:03,290 --> 00:40:00,020  
the late member of the NASA family

753  
00:40:06,910 --> 00:40:03,300  
Arturo helped bring the crew of Apollo

754  
00:40:10,030 --> 00:40:06,920  
13 safely back to Earth

755  
00:40:13,490 --> 00:40:10,040  
and a surprise

756  
00:40:16,010 --> 00:40:13,500  
Snoopy and his orange spacesuit will

757  
00:40:18,230 --> 00:40:16,020  
hitch a ride

758  
00:40:21,170 --> 00:40:18,240  
we're also taking advantage of

759  
00:40:25,190 --> 00:40:21,180  
additional space on SLS to launch

760  
00:40:28,250 --> 00:40:25,200  
several cubesats in cooperation with the

761  
00:40:31,270 --> 00:40:28,260  
Japan's Aerospace Exploration Agency and

762  
00:40:34,490 --> 00:40:31,280  
the Italian space agency

763  
00:40:37,870 --> 00:40:34,500

Humanity's drive to explore the cosmos

764

00:40:41,270 --> 00:40:37,880

is not bound by border

765

00:40:46,130 --> 00:40:41,280

Discovery strengthens diplomacy

766

00:40:49,430 --> 00:40:46,140

this Mission this program will build a

767

00:40:51,650 --> 00:40:49,440

Global Alliance that explores deep space

768

00:40:54,770 --> 00:40:51,660

for the benefit of all

769

00:40:56,210 --> 00:40:54,780

and of course Artemis one will be a

770

00:40:59,870 --> 00:40:56,220

major step

771

00:41:03,349 --> 00:40:59,880

but our journey is far from over

772

00:41:05,990 --> 00:41:03,359

this will be the first in a series of

773

00:41:09,770 --> 00:41:06,000

increasingly complex missions

774

00:41:10,690 --> 00:41:09,780

in 2024 for the first time since Apollo

775

00:41:13,130 --> 00:41:10,700

8

776

00:41:14,930 --> 00:41:13,140

astronauts will return to the moon on

777

00:41:19,190 --> 00:41:14,940

Artemis 2.

778

00:41:23,030 --> 00:41:19,200

the astronauts will uh will fly in lunar

779

00:41:26,329 --> 00:41:23,040

orbit venturing farther into space than

780

00:41:29,270 --> 00:41:26,339

any humans have ever before

781

00:41:31,250 --> 00:41:29,280

and these are not a series of isolated

782

00:41:35,569 --> 00:41:31,260

missions each

783

00:41:39,530 --> 00:41:35,579

will be a groundbreaking complement and

784

00:41:43,609 --> 00:41:39,540

component to build the presence on and

785

00:41:45,710 --> 00:41:43,619

around the moon and eventually Beyond

786

00:41:50,750 --> 00:41:45,720

and none of this is easy

787

00:41:54,370 --> 00:41:50,760

nothing NASA dares to achieve ever is

788

00:41:58,970 --> 00:41:54,380

but as we have shown with this pandemic

789

00:42:02,569 --> 00:41:58,980

NASA knows how to press forward

790

00:42:05,030 --> 00:42:02,579

Artemis personifies why NASA needs

791

00:42:08,690 --> 00:42:05,040

continuity of purpose

792

00:42:10,430 --> 00:42:08,700

our missions have not achieved and were

793

00:42:12,050 --> 00:42:10,440

not achieved just by a single

794

00:42:18,530 --> 00:42:12,060

Administration

795

00:42:21,109 --> 00:42:18,540

and I'm proud President Biden has shown

796

00:42:24,890 --> 00:42:21,119

strong support for these missions

797

00:42:27,950 --> 00:42:24,900

and every breakthrough should be seen as

798

00:42:29,089 --> 00:42:27,960

a Triumph for our country and all of

799

00:42:31,910 --> 00:42:29,099

humanity

800

00:42:32,750 --> 00:42:31,920

and when the next humans walk on the

801  
00:42:35,870 --> 00:42:32,760  
moon

802  
00:42:39,530 --> 00:42:35,880  
I hope that every single child around

803  
00:42:43,150 --> 00:42:39,540  
the world I hope they see themselves in

804  
00:42:45,970 --> 00:42:43,160  
this new generation of explorers

805  
00:42:48,950 --> 00:42:45,980  
NASA's history has become

806  
00:42:50,870 --> 00:42:48,960  
intertwined with the never-ending

807  
00:42:53,930 --> 00:42:50,880  
American story

808  
00:42:55,309 --> 00:42:53,940  
the sky has never been the limit for

809  
00:42:58,309 --> 00:42:55,319  
NASA

810  
00:43:01,550 --> 00:42:58,319  
this is our opportunity to make

811  
00:43:03,710 --> 00:43:01,560  
Limitless potential of every American

812  
00:43:05,990 --> 00:43:03,720  
it's past time

813  
00:43:08,530 --> 00:43:06,000

to bring down the barriers that limit

814

00:43:11,630 --> 00:43:08,540

opportunity in underserved and

815

00:43:16,309 --> 00:43:11,640

underrepresented communities it's time

816

00:43:19,550 --> 00:43:16,319

to Anchor fairness as a core in every

817

00:43:23,270 --> 00:43:19,560

component in every NASA mission

818

00:43:25,870 --> 00:43:23,280

Artemis missions should show every child

819

00:43:31,069 --> 00:43:25,880

that they can dream it

820

00:43:34,309 --> 00:43:31,079

if they can dream it they can be it

821

00:43:37,490 --> 00:43:34,319

and perhaps they will one day join the

822

00:43:39,050 --> 00:43:37,500

NASA family as a technician or a

823

00:43:41,450 --> 00:43:39,060

mathematician

824

00:43:44,870 --> 00:43:41,460

maybe they'll walk on the moon

825

00:43:47,030 --> 00:43:44,880

or be the Pioneers who Venture onward to

826  
00:43:50,930 --> 00:43:47,040  
Mars

827  
00:43:54,770 --> 00:43:50,940  
this is what NASA does best

828  
00:43:57,170 --> 00:43:54,780  
we unify we discover

829  
00:44:00,109 --> 00:43:57,180  
we inspire

830  
00:44:01,329 --> 00:44:00,119  
and from this sacred and historical

831  
00:44:05,089 --> 00:44:01,339  
place

832  
00:44:06,890 --> 00:44:05,099  
Humanity will soon embark on a new era

833  
00:44:11,510 --> 00:44:06,900  
of exploration

834  
00:44:12,710 --> 00:44:11,520  
aboard this spacecraft will be a flash

835  
00:44:15,650 --> 00:44:12,720  
drive

836  
00:44:18,410 --> 00:44:15,660  
it will hold the names of over a million

837  
00:44:21,650 --> 00:44:18,420  
individuals from around the world

838  
00:44:22,849 --> 00:44:21,660

that flash drive will contain more than

839

00:44:27,530 --> 00:44:22,859

names

840

00:44:29,990 --> 00:44:27,540

it will represent our stories Who We Are

841

00:44:31,970 --> 00:44:30,000

the child who imagines themselves

842

00:44:34,609 --> 00:44:31,980

soaring in the skies

843

00:44:36,890 --> 00:44:34,619

the student who burns the midnight oil

844

00:44:40,130 --> 00:44:36,900

at the library so they can build a

845

00:44:42,230 --> 00:44:40,140

rocket and a spacecraft like this one

846

00:44:45,589 --> 00:44:42,240

the NASA employee

847

00:44:48,710 --> 00:44:45,599

who gazes up at the Moon every night

848

00:44:52,970 --> 00:44:48,720

knowing that their work will soon return

849

00:44:57,290 --> 00:44:52,980

humankind to the lunar surface

850

00:45:00,530 --> 00:44:57,300

and when this monster rocket lifts off

851  
00:45:02,809 --> 00:45:00,540  
it will carry all of our greatest hopes

852  
00:45:05,390 --> 00:45:02,819  
in the heavens

853  
00:45:08,150 --> 00:45:05,400  
every single person who dreams of

854  
00:45:09,530 --> 00:45:08,160  
discoveries will see many more In Our

855  
00:45:12,530 --> 00:45:09,540  
Lifetime

856  
00:45:16,250 --> 00:45:12,540  
I want to thank all of you all of these

857  
00:45:18,170 --> 00:45:16,260  
workers the whole Space Team the family

858  
00:45:23,390 --> 00:45:18,180  
of NASA

859  
00:45:28,120 --> 00:45:23,400  
and may God bless you and the Artemis to

860  
00:45:36,460 --> 00:45:28,130  
the moon and then to Mars God bless you

861  
00:45:37,620 --> 00:45:36,470  
[Applause]

862  
00:45:57,490 --> 00:45:37,630  
[Music]

863  
00:45:57,500 --> 00:46:11,410

I'm happy thank you

864

00:46:11,420 --> 00:46:15,860

[Applause]

865

00:46:15,870 --> 00:46:21,609

[Music]

866

00:46:21,619 --> 00:46:25,670

thank you

867

00:46:25,680 --> 00:46:29,770

foreign

868

00:46:36,540 --> 00:46:31,940

[Applause]

869

00:46:39,550 --> 00:46:36,550

[Music]

870

00:47:01,550 --> 00:46:39,560

[Laughter]

871

00:47:01,560 --> 00:47:11,670

foreign

872

00:47:11,680 --> 00:47:33,190

[Music]

873

00:47:37,309 --> 00:47:35,450

thank you

874

00:47:39,230 --> 00:47:37,319

if you're just joining us welcome to

875

00:47:40,790 --> 00:47:39,240

Kennedy Space Center in Florida where

876

00:47:42,650 --> 00:47:40,800

everyone is celebrating take a look at

877

00:47:44,569 --> 00:47:42,660

them in that crowd they are celebrating

878

00:47:47,150 --> 00:47:44,579

what you see there on your screen we

879

00:47:49,790 --> 00:47:47,160

just unveiled our brand new moon rocket

880

00:47:52,730 --> 00:47:49,800

which you see right there poised outside

881

00:47:55,190 --> 00:47:52,740

of the Vehicle Assembly Building for the

882

00:47:57,290 --> 00:47:55,200

first time ever right I'm very very

883

00:47:59,510 --> 00:47:57,300

excited about it NASA's space launch

884

00:48:01,910 --> 00:47:59,520

system or SLS is the most powerful

885

00:48:04,730 --> 00:48:01,920

rocket in the world and sitting on top

886

00:48:07,609 --> 00:48:04,740

is the new Orion capsule that will fly

887

00:48:11,270 --> 00:48:07,619

us back to the Moon the last time a moon

888

00:48:15,589 --> 00:48:11,280

rocket rolled out of the VAB was in 1972

889

00:48:17,809 --> 00:48:15,599

50 years ago for Apollo 17. once Artemis

890

00:48:20,210 --> 00:48:17,819

1 proves we are ready to put humans in

891

00:48:21,829 --> 00:48:20,220

Orion this person right here may be one

892

00:48:23,450 --> 00:48:21,839

of those astronauts lucky you Victor

893

00:48:25,010 --> 00:48:23,460

Victor Glover everyone thank you for

894

00:48:26,390 --> 00:48:25,020

being here thanks Megan it's great to be

895

00:48:28,309 --> 00:48:26,400

here how do you feel being here let's

896

00:48:29,870 --> 00:48:28,319

take a look right here this Rocket's

897

00:48:31,430 --> 00:48:29,880

almost out of view so it's on its way

898

00:48:33,290 --> 00:48:31,440

it's going that's what we came here for

899

00:48:34,730 --> 00:48:33,300

though and it is a great day and you

900

00:48:36,170 --> 00:48:34,740

know honestly the most important thing

901  
00:48:38,030 --> 00:48:36,180  
that I can say is I'm just really happy

902  
00:48:39,349 --> 00:48:38,040  
for all the folks who worked hard to

903  
00:48:40,609 --> 00:48:39,359  
make this a reality and I'm here to

904  
00:48:42,410 --> 00:48:40,619  
celebrate with them and also to

905  
00:48:43,670 --> 00:48:42,420  
celebrate them it's a great day when you

906  
00:48:46,490 --> 00:48:43,680  
found out that you were going to be here

907  
00:48:47,690 --> 00:48:46,500  
for a rollout were you like yes I was

908  
00:48:49,490 --> 00:48:47,700  
going to be here for a rollout no matter

909  
00:48:51,829 --> 00:48:49,500  
what if I had to pay for my own ticket

910  
00:48:54,530 --> 00:48:51,839  
but uh yeah when I would have found out

911  
00:48:56,089 --> 00:48:54,540  
I get to do this I was like yes it is

912  
00:48:58,130 --> 00:48:56,099  
it's just a special place for me I love

913  
00:48:59,510 --> 00:48:58,140

Kennedy Space Center and especially when

914

00:49:01,970 --> 00:48:59,520

there's a rocket out on the crawler way

915

00:49:04,190 --> 00:49:01,980

yeah just seeing the rocket here does it

916

00:49:06,650 --> 00:49:04,200

make the Artemis Mission seem more real

917

00:49:07,970 --> 00:49:06,660

always always there's there's you know

918

00:49:09,770 --> 00:49:07,980

in the astronaut office we tell people

919

00:49:11,510 --> 00:49:09,780

hey if you ever have a chance to go see

920

00:49:13,430 --> 00:49:11,520

space flight Hardware go do it doesn't

921

00:49:14,630 --> 00:49:13,440

matter what it's for go see it uh it

922

00:49:16,970 --> 00:49:14,640

helps you do your job better and that's

923

00:49:19,250 --> 00:49:16,980

absolutely true today I've seen a lot of

924

00:49:20,630 --> 00:49:19,260

you know uh PowerPoint slides and read a

925

00:49:22,370 --> 00:49:20,640

lot of briefings about this but to see

926  
00:49:24,349 --> 00:49:22,380  
it all stacked on the mobile launcher on

927  
00:49:26,210 --> 00:49:24,359  
the crawler transporter it just makes it

928  
00:49:27,650 --> 00:49:26,220  
so much more real oh absolutely and you

929  
00:49:29,870 --> 00:49:27,660  
know you're again one of the lucky few

930  
00:49:32,270 --> 00:49:29,880  
18 astronauts were chosen for the

931  
00:49:34,670 --> 00:49:32,280  
Artemis team how does it feel to be part

932  
00:49:36,470 --> 00:49:34,680  
of that team honestly you know what I

933  
00:49:39,109 --> 00:49:36,480  
I've talked to folks a lot about this

934  
00:49:41,270 --> 00:49:39,119  
today and when when we make that call

935  
00:49:43,250 --> 00:49:41,280  
for Artemis 2 when we tell the crew

936  
00:49:44,630 --> 00:49:43,260  
that's your go for translunar injection

937  
00:49:47,630 --> 00:49:44,640  
you know we're saying hey everything is

938  
00:49:49,309 --> 00:49:47,640

good go to the Moon whatever position

939

00:49:51,890 --> 00:49:49,319

I'm in whether it's at home on my couch

940

00:49:53,930 --> 00:49:51,900

whether I'm on the Houston side of that

941

00:49:56,030 --> 00:49:53,940

call or if I'm in space on that side of

942

00:49:57,890 --> 00:49:56,040

the call it it doesn't matter you know

943

00:49:59,630 --> 00:49:57,900

to be a little part of this and and to

944

00:50:01,970 --> 00:49:59,640

get to help in any way is really truly

945

00:50:03,410 --> 00:50:01,980

an honor and so uh the whole Artemis

946

00:50:06,230 --> 00:50:03,420

team and really the entire astronaut

947

00:50:07,910 --> 00:50:06,240

office it's all all of us are you know

948

00:50:09,589 --> 00:50:07,920

honored to be able to help out and make

949

00:50:11,690 --> 00:50:09,599

this hardware and software a reality so

950

00:50:13,730 --> 00:50:11,700

I'm excited for whoever gets to do it

951  
00:50:16,430 --> 00:50:13,740  
and uh whatever part of that call I get

952  
00:50:17,990 --> 00:50:16,440  
to be on I'm excited uh for you know the

953  
00:50:19,790 --> 00:50:18,000  
crew that actually gets to go when they

954  
00:50:21,650 --> 00:50:19,800  
go I'll be excited for them excited are

955  
00:50:23,210 --> 00:50:21,660  
you also anxious I mean the Moon is a

956  
00:50:25,250 --> 00:50:23,220  
lot farther than the ISS and I know

957  
00:50:26,750 --> 00:50:25,260  
you've been to the ISS absolutely and

958  
00:50:28,190 --> 00:50:26,760  
that's a good point you know it's uh a

959  
00:50:30,950 --> 00:50:28,200  
thousand times farther right the ISS

960  
00:50:32,750 --> 00:50:30,960  
orbits at 250 miles the moon's 240 000

961  
00:50:34,190 --> 00:50:32,760  
miles away and so it's interesting I

962  
00:50:35,690 --> 00:50:34,200  
like to say it's not just a thousand

963  
00:50:37,430 --> 00:50:35,700

times farther but it's probably a

964

00:50:39,170 --> 00:50:37,440

thousand times more complicated of a

965

00:50:41,630 --> 00:50:39,180

mission so many more things have to go

966

00:50:43,190 --> 00:50:41,640

right and it's also when we add Artemis

967

00:50:44,630 --> 00:50:43,200

3 and we're going to the surface now you

968

00:50:46,549 --> 00:50:44,640

have to get from the surface of the Moon

969

00:50:47,990 --> 00:50:46,559

back to lunar orbit which is like the

970

00:50:50,270 --> 00:50:48,000

equivalent of launching a low earth

971

00:50:52,130 --> 00:50:50,280

orbit Mission uh from Earth so very

972

00:50:54,349 --> 00:50:52,140

complicated Mission and and so we have a

973

00:50:55,910 --> 00:50:54,359

lot of work ahead of us but but you know

974

00:50:57,589 --> 00:50:55,920

we're going to get it done and and uh

975

00:50:59,150 --> 00:50:57,599

it'll be all starting with this one with

976

00:51:00,770 --> 00:50:59,160

Artemis one what do you think of the

977

00:51:02,930 --> 00:51:00,780

fact everything that you to subscribe

978

00:51:05,150 --> 00:51:02,940

seems no pun intended out of this world

979

00:51:07,370 --> 00:51:05,160

and the fact that thousands of people

980

00:51:10,430 --> 00:51:07,380

from across the globe came together to

981

00:51:13,609 --> 00:51:10,440

make this today a reality and that we're

982

00:51:16,309 --> 00:51:13,619

on the path to the Moon to Mars how how

983

00:51:17,930 --> 00:51:16,319

do you feel about that that is a really

984

00:51:19,670 --> 00:51:17,940

big part of this that's what's special

985

00:51:21,230 --> 00:51:19,680

someone asked me earlier talking about

986

00:51:22,849 --> 00:51:21,240

being part of the Artemis team they said

987

00:51:24,349 --> 00:51:22,859

hey how does it feel you know to watch

988

00:51:26,210 --> 00:51:24,359

your rocket and I said well look

989

00:51:28,690 --> 00:51:26,220

correction I mean this is our rocket

990

00:51:31,490 --> 00:51:28,700

it's Humanity's rocket when those four

991

00:51:33,290 --> 00:51:31,500

rs-25s and those two solids light I hope

992

00:51:34,609 --> 00:51:33,300

the whole world is watching uh and I

993

00:51:36,589 --> 00:51:34,619

hope a lot of kids decide to study

994

00:51:38,270 --> 00:51:36,599

science and math uh because of it and

995

00:51:40,370 --> 00:51:38,280

that's really what it's about inspiring

996

00:51:42,829 --> 00:51:40,380

kids to go out and be their best selves

997

00:51:44,809 --> 00:51:42,839

and so I am excited because this is a

998

00:51:47,270 --> 00:51:44,819

great step for Humanity we call things

999

00:51:48,829 --> 00:51:47,280

that humans come together to do you know

1000

00:51:50,510 --> 00:51:48,839

when we put aside our differences and we

1001  
00:51:52,490 --> 00:51:50,520  
accomplish great things we call them

1002  
00:51:53,750 --> 00:51:52,500  
Moon shots you know but it's it's been a

1003  
00:51:55,370 --> 00:51:53,760  
long time since we've actually made a

1004  
00:51:57,589 --> 00:51:55,380  
moonshot so our generation now has a

1005  
00:51:59,030 --> 00:51:57,599  
chance to have our own actual moonshots

1006  
00:52:01,010 --> 00:51:59,040  
yeah hearing you talk about it just

1007  
00:52:02,750 --> 00:52:01,020  
makes me so excited you know just your

1008  
00:52:04,250 --> 00:52:02,760  
passion for this program and what's to

1009  
00:52:05,750 --> 00:52:04,260  
come thank you so much for sharing that

1010  
00:52:07,370 --> 00:52:05,760  
with me and and the rest of everyone

1011  
00:52:08,690 --> 00:52:07,380  
watching today thank you Victor my

1012  
00:52:10,730 --> 00:52:08,700  
pleasure it's great to be here all right

1013  
00:52:12,829 --> 00:52:10,740

perfect and that's going to wrap up our

1014

00:52:15,890 --> 00:52:12,839

live coverage of the first ever roll out

1015

00:52:18,589 --> 00:52:15,900

of NASA's brand new moon rocket you know

1016

00:52:21,370 --> 00:52:18,599

we're an hour into this we still have 10

1017

00:52:24,829 --> 00:52:21,380

more to go until the crawler reaches pad

1018

00:52:26,690 --> 00:52:24,839

39b it will stay on the pad until the

1019

00:52:29,690 --> 00:52:26,700

wet dress rehearsal the first week in

1020

00:52:32,809 --> 00:52:29,700

April and if all goes well the launch

1021

00:52:34,309 --> 00:52:32,819

team will set a date for Artemis one if

1022

00:52:35,990 --> 00:52:34,319

you don't want to miss any part of this

1023

00:52:38,390 --> 00:52:36,000

first Artemis Mission you can register

1024

00:52:40,549 --> 00:52:38,400

to be a virtual guest you'll receive

1025

00:52:43,250 --> 00:52:40,559

important updates and special content

1026

00:52:46,370 --> 00:52:43,260

straight to your inbox you can sign up

1027

00:52:48,230 --> 00:52:46,380

for that by scanning the QR code you see

1028

00:52:51,589 --> 00:52:48,240

there on your screen it will take you to

1029

00:52:53,650 --> 00:52:51,599

this website [nasa.gov](http://nasa.gov) virtual guests if

1030

00:52:57,589 --> 00:52:53,660

it's easier just to write down again

1031

00:52:59,450 --> 00:52:57,599

[nasa.gov](http://nasa.gov) virtual guest and when artemis1

1032

00:53:01,609 --> 00:52:59,460

does take flight we will of course have

1033

00:53:04,430 --> 00:53:01,619

a lot live broadcast for you it will

1034

00:53:06,829 --> 00:53:04,440

start on NASA TV about two hours before

1035

00:53:09,290 --> 00:53:06,839

liftoff let's end the show now with

1036

00:53:12,290 --> 00:53:09,300

Grammy award-winning artist Eddie Vedder

1037

00:53:15,710 --> 00:53:12,300

and his new song titled Invincible a nod

1038

00:53:18,829 --> 00:53:15,720

to this moment getting here was not easy

1039

00:53:21,829 --> 00:53:18,839

it was the work of thousands of dreamers

1040

00:53:25,250 --> 00:53:21,839

and doers across the globe thanks to

1041

00:53:28,250 --> 00:53:25,260

their Invincible Spirit we are on our

1042

00:53:31,790 --> 00:53:28,260

way to the launch pad then the moon then

1043

00:53:32,829 --> 00:53:31,800

Mars because we are curious we are

1044

00:53:38,440 --> 00:53:32,839

capable

1045

00:53:40,340 --> 00:53:38,610

[Music]

1046

00:53:42,530 --> 00:53:40,350

[Applause]

1047

00:53:45,290 --> 00:53:42,540

[Music]

1048

00:53:47,750 --> 00:53:45,300

let's go on with a few uh we're gonna

1049

00:53:57,910 --> 00:53:47,760

just play a few new songs I'm going to

1050

00:54:06,730 --> 00:54:01,329

can you hear me

1051  
00:54:06,740 --> 00:54:10,609  
take off

1052  
00:54:10,619 --> 00:54:16,190  
directions

1053  
00:54:46,130 --> 00:54:44,510  
[Music]

1054  
00:54:47,940 --> 00:54:46,140  
oh

1055  
00:54:51,470 --> 00:54:47,950  
my God

1056  
00:54:54,260 --> 00:54:51,480  
[Music]

1057  
00:54:56,770 --> 00:54:54,270  
with me

1058  
00:55:11,890 --> 00:54:56,780  
[Applause]

1059  
00:55:47,569 --> 00:55:11,900  
[Music]

1060  
00:55:50,930 --> 00:55:48,550  
foreign

1061  
00:56:22,270 --> 00:55:50,940  
[Applause]

1062  
00:56:30,790 --> 00:56:25,310  
you are alive

1063  
00:56:32,400 --> 00:56:30,800

[Music]

1064

00:57:00,060 --> 00:56:32,410

[Applause]

1065

00:57:02,400 --> 00:57:00,070

[Music]

1066

00:57:09,290 --> 00:57:02,410

[Applause]

1067

00:57:12,260 --> 00:57:09,300

[Music]

1068

00:57:17,970 --> 00:57:12,270

[Applause]

1069

00:57:20,570 --> 00:57:17,980

[Music]

1070

00:57:25,220 --> 00:57:20,580

[Applause]

1071

00:57:27,730 --> 00:57:25,230

[Music]

1072

00:57:48,829 --> 00:57:27,740

[Applause]