



0 1 P
3 9
2 8 0
8 5 0
5 2 0

STARLINER

ORBITAL FLIGHT TEST



1
00:00:01,568 --> 00:00:07,474
[MUSIC]

2
00:00:07,474 --> 00:00:08,174
>> TODAY, WE'RE AT

3
00:00:08,174 --> 00:00:09,142
THE KENNEDY SPACE CENTER,

4
00:00:09,142 --> 00:00:10,176
WHERE WE ARE DOING SOME

5
00:00:10,176 --> 00:00:13,213
REALLY AMAZING THINGS.

6
00:00:13,213 --> 00:00:14,114
IN JUST A FEW DAYS,

7
00:00:14,114 --> 00:00:14,781
WE'RE GONNA LAUNCH

8
00:00:14,781 --> 00:00:16,950
THE BOEING STARLINER.

9
00:00:18,985 --> 00:00:19,686
WITH THE COMPLETION

10
00:00:19,686 --> 00:00:20,887
OF THIS TEST,

11
00:00:20,887 --> 00:00:22,489
WE WILL BE ONE STEP CLOSER TO

12
00:00:22,489 --> 00:00:24,290
LAUNCHING AMERICAN ASTRONAUTS,

13
00:00:24,290 --> 00:00:25,692

ON AMERICAN ROCKETS FROM

14

00:00:25,692 --> 00:00:27,794

AMERICAN SOIL FOR THE FIRST TIME

15

00:00:27,794 --> 00:00:28,695

SINCE THE RETIREMENT OF

16

00:00:28,695 --> 00:00:31,131

THE SPACE SHUTTLES IN 2011.

17

00:00:32,766 --> 00:00:46,613

[MUSIC]

18

00:00:46,613 --> 00:00:47,447

>> ALL RIGHT, WELL GOOD MORNING,

19

00:00:47,447 --> 00:00:48,581

AND WELCOME TO, UH,

20

00:00:48,581 --> 00:00:49,749

THE KENNEDY SPACE CENTER,

21

00:00:49,749 --> 00:00:50,750

AMERICA'S PREMIERE

22

00:00:50,750 --> 00:00:52,419

MULTI-USER SPACEPORT.

23

00:00:52,419 --> 00:00:53,653

IT IS ABSOLUTELY GREAT

24

00:00:53,653 --> 00:00:55,221

HERE TODAY GETTING READY FOR,

25

00:00:55,221 --> 00:00:56,790

UH, BOEING'S COMMERCIAL CREW

26

00:00:56,790 --> 00:00:58,992

LAUNCH OF THE STARLINER.

27

00:00:58,992 --> 00:01:00,460

UH, I CAN'T-- I CAN'T SAY

28

00:01:00,460 --> 00:01:01,494

ENOUGH GOOD THINGS ABOUT WHAT

29

00:01:01,494 --> 00:01:02,896

WE'RE DOING HERE AT KSC.

30

00:01:02,896 --> 00:01:03,963

I THINK IT'S PRETTY AMAZING

31

00:01:03,963 --> 00:01:04,631

WHEN YOU LOOK OUT AT

32

00:01:04,631 --> 00:01:05,999

ALL THAT'S GOIN' ON.

33

00:01:05,999 --> 00:01:08,501

AND TODAY WE'VE GOT OUR NASA

34

00:01:08,501 --> 00:01:10,837

ADMINISTRATOR JIM BRIDENSTINE.

35

00:01:10,837 --> 00:01:12,472

AND THIS AWESOME BOEING

36

00:01:12,472 --> 00:01:14,707

COMMERCIAL CREW COTERIE.

37

00:01:17,610 --> 00:01:18,478

>> I REMEMBER IT WASN'T TOO

38

00:01:18,478 --> 00:01:19,612

LONG AGO, IT WAS ANNOUNCED

39

00:01:19,612 --> 00:01:20,547

THAT THE SPACE SHUTTLES

40

00:01:20,547 --> 00:01:22,315

WERE GONNA RETIRE, UH,

41

00:01:22,315 --> 00:01:23,850

THE CONSTELLATION PROGRAM

42

00:01:23,850 --> 00:01:25,485

WAS GONNA BE CANCELED,

43

00:01:25,485 --> 00:01:26,152

AND OF COURSE HERE

44

00:01:26,152 --> 00:01:27,187

AT THE SPACE COAST

45

00:01:27,187 --> 00:01:28,922

IN CENTRAL FLORIDA, UH,

46

00:01:28,922 --> 00:01:30,323

THERE WAS A LOTTA CONCERNS AND

47

00:01:30,323 --> 00:01:32,292

A LOTTA FAMILIES WERE HURTING.

48

00:01:32,292 --> 00:01:33,293

BUT BOB, BECAUSE OF YOUR

49

00:01:33,293 --> 00:01:34,260

LEADERSHIP AND THE GREAT

50

00:01:34,260 --> 00:01:35,428

THINGS YOU'VE DONE,

51
00:01:35,428 --> 00:01:37,030
YOU'VE TRANSFORMED THIS FACILITY

52
00:01:37,030 --> 00:01:39,199
INTO A MULTI-USER SPACEPORT,

53
00:01:39,199 --> 00:01:40,200
WHERE WE'VE GOT COMMERCIAL

54
00:01:40,200 --> 00:01:41,201
ACTIVITIES HAPPENING

55
00:01:41,201 --> 00:01:42,068
SIDE-BY-SIDE WITH

56
00:01:42,068 --> 00:01:43,603
GOVERNMENT ACTIVITIES.

57
00:01:43,603 --> 00:01:44,838
THESE ARE VERY EXCITING TIMES

58
00:01:44,838 --> 00:01:46,473
FOR THE KENNEDY SPACE CENTER.

59
00:01:46,473 --> 00:01:46,973
VERY EXCITING TIMES

60
00:01:46,973 --> 00:01:49,476
FOR CENTRAL FLORIDA.

61
00:01:56,015 --> 00:01:56,549
>> HOW ARE YOU, SIR?

62
00:01:56,549 --> 00:01:57,183
>> HEY, GOOD TO SEE YOU.

63
00:01:57,183 --> 00:01:57,817

>> GOOD TO SEE YOU.

64

00:01:57,817 --> 00:01:58,685
THANKS FOR BEIN' HERE.

65

00:01:58,685 --> 00:01:59,919
>> KATIE.

66

00:01:59,919 --> 00:02:00,487
>> GOOD TO SEE YOU AGAIN, SIR.

67

00:02:00,487 --> 00:02:01,287
>> GOOD TO SEE YOU ALWAYS.

68

00:02:01,287 --> 00:02:01,721
HOW ARE YA?

69

00:02:01,721 --> 00:02:02,455
>> GOOD.

70

00:02:02,455 --> 00:02:03,289
>> EXCELLENT.

71

00:02:03,289 --> 00:02:03,823
>> WELCOME.

72

00:02:03,823 --> 00:02:04,324
>> HEY, JIM.

73

00:02:04,324 --> 00:02:05,091
HOW ARE YOU DOING?

74

00:02:05,091 --> 00:02:05,758
>> GREAT TO SEE YA.

75

00:02:05,758 --> 00:02:06,493
>> AWESOME, THANK YOU.

76

00:02:06,493 --> 00:02:07,160

>> WELCOME TO

77

00:02:07,160 --> 00:02:07,927

THE STARLINER HIGH BAY,

78

00:02:07,927 --> 00:02:09,095

WHERE THE SPACESHIPS ARE BORN.

79

00:02:09,095 --> 00:02:09,629

>> IT'S PRETTY AMAZING,

80

00:02:09,629 --> 00:02:10,263

ISN'T IT?

81

00:02:10,263 --> 00:02:11,064

>> YEAH.

82

00:02:11,064 --> 00:02:11,831

>> TELL ME ABOUT THESE, UH,

83

00:02:11,831 --> 00:02:13,066

WHAT ARE WE LOOKING AT HERE?

84

00:02:13,066 --> 00:02:14,634

>> LET ME START OVER HERE.

85

00:02:14,634 --> 00:02:16,202

THAT IS A SPACECRAFT THAT

86

00:02:16,202 --> 00:02:17,704

JUST FLEW OUR PAD ABORT TEST.

87

00:02:17,704 --> 00:02:18,438

>> YEAH.

88

00:02:18,438 --> 00:02:19,172

>> AND WITH THAT, WE PROVED

89

00:02:19,172 --> 00:02:20,340
THAT THE GUIDANCE SYSTEM

90

00:02:20,340 --> 00:02:21,708
TALKS TO THRUSTERS AND,

91

00:02:21,708 --> 00:02:23,443
UH, THE COME HOME SYSTEM

92

00:02:23,443 --> 00:02:24,310
ALL WORKS GREAT.

93

00:02:24,310 --> 00:02:24,911
>> YEAH.

94

00:02:24,911 --> 00:02:25,478
>> SO WE'RE CONFIDENT

95

00:02:25,478 --> 00:02:26,479
TO GO PRESS ONTO ORBIT.

96

00:02:26,479 --> 00:02:27,714
>> SO THAT'S THAT VEHICLE?

97

00:02:27,714 --> 00:02:28,314
>> THAT'S THE ONE.

98

00:02:28,314 --> 00:02:29,182
>> THAT'S THE VERY ONE.

99

00:02:29,182 --> 00:02:29,749
>> AND WE HAVE

100

00:02:29,749 --> 00:02:30,717
A LITTLE TRADITION

101
00:02:30,717 --> 00:02:31,951
ON A SPACECRAFT GOING TO SPACE,

102
00:02:31,951 --> 00:02:33,720
YOU CAN'T DO ANYTHING TOO FUNKY.

103
00:02:33,720 --> 00:02:34,754
THIS ONE CAME HOME

104
00:02:34,754 --> 00:02:36,289
AND THE TEAM HAS SIGNED IT.

105
00:02:36,289 --> 00:02:36,856
>> OH, WOW.

106
00:02:36,856 --> 00:02:37,590
>> THEY'VE SAID,

107
00:02:37,590 --> 00:02:38,291
THAT'S OUR WORK.

108
00:02:38,291 --> 00:02:38,992
>> OKAY.

109
00:02:38,992 --> 00:02:39,726
>> AND I'M WONDERING IF YOU

110
00:02:39,726 --> 00:02:40,894
WOULD DO US THE HONOR OF

111
00:02:40,894 --> 00:02:42,595
REPRESENTING THE NASA TEAMMATES.

112
00:02:42,595 --> 00:02:43,563
>> I WOULD LOVE TO.

113
00:02:43,563 --> 00:02:44,163

>> AND COME ON UP AND SIGN IT.

114

00:02:44,163 --> 00:02:44,964

WOULD YA?

115

00:02:44,964 --> 00:02:46,633

>> ALL RIGHT, LET'S DO IT.

116

00:02:54,574 --> 00:02:55,642

>> THIS WAS A TEST VEHICLE.

117

00:02:55,642 --> 00:02:56,442

CAN I SHOW YOU THE FIRST ONE

118

00:02:56,442 --> 00:02:57,243

TO CARRY PEOPLE?

119

00:02:57,243 --> 00:02:57,944

>> ABSOLUTELY.

120

00:02:57,944 --> 00:02:58,411

>> LET'S GO TALK TO

121

00:02:58,411 --> 00:02:59,245

CHRIS FERGUSON.

122

00:02:59,245 --> 00:03:00,079

HE'S GONNA FLY IN IT.

123

00:03:00,079 --> 00:03:02,315

>> OKAY.

124

00:03:06,052 --> 00:03:06,786

>> HEY, CHRIS.

125

00:03:06,786 --> 00:03:07,420

>> HOW ARE YOU DOING?

126

00:03:07,420 --> 00:03:08,421

>> GOOD TO SEE YOU.

127

00:03:08,421 --> 00:03:09,255

>> IT'S GOOD TO SEE YOU.

128

00:03:09,255 --> 00:03:10,089

>> ABSOLUTELY.

129

00:03:10,089 --> 00:03:10,657

>> SO THIS IS, UH,

130

00:03:10,657 --> 00:03:12,992

THIS IS NUMBER TWO OF THREE.

131

00:03:12,992 --> 00:03:14,527

UH, THESE CAPSULES

132

00:03:14,527 --> 00:03:15,828

ARE MOSTLY AUTONOMOUS.

133

00:03:15,828 --> 00:03:16,462

>> OKAY.

134

00:03:16,462 --> 00:03:17,130

>> UH, WHICH MEANS

135

00:03:17,130 --> 00:03:18,131

THEY SORT OF LAUNCH

136

00:03:18,131 --> 00:03:19,532

AND THEY'RE ABLE TO FIND

137

00:03:19,532 --> 00:03:20,533

THE INTERNATIONAL SPACE STATION

138

00:03:20,533 --> 00:03:21,534

AND DOCK WITH IT WITH

139

00:03:21,534 --> 00:03:22,502

LITTLE OR NO ASSISTANCE

140

00:03:22,502 --> 00:03:23,603

FROM AN ASTRONAUT.

141

00:03:23,603 --> 00:03:25,838

HOWEVER, THERE IS THE SYSTEM

142

00:03:25,838 --> 00:03:27,106

IN PLACE IN CASE THE ASTRONAUT

143

00:03:27,106 --> 00:03:28,107

NEEDS TO TAKE OVER

144

00:03:28,107 --> 00:03:29,309

WHERE THEY CAN GUIDE IT

145

00:03:29,309 --> 00:03:31,144

AND MANUALLY DOCK IT IF NEED BE.

146

00:03:31,144 --> 00:03:32,178

>> OKAY.

147

00:03:32,178 --> 00:03:33,146

>> WITH AN AUTONOMOUS VEHICLE,

148

00:03:33,146 --> 00:03:34,981

WE ARE LARGELY A MONITOR.

149

00:03:34,981 --> 00:03:35,949

WE HAVE TO MAKE SURE THINGS

150

00:03:35,949 --> 00:03:37,250

GO OFF AS THEY'RE SUPPOSED TO,

151
00:03:37,250 --> 00:03:37,784
AND THEN AN ACTION

152
00:03:37,784 --> 00:03:38,651
IF IT WAS INTENDED,

153
00:03:38,651 --> 00:03:39,886
IS IN FACT COMPLETED.

154
00:03:39,886 --> 00:03:40,853
AND THE WAY WE MANAGE THAT IS

155
00:03:40,853 --> 00:03:42,522
WE ACTUALLY WATCH THE SCRIPT

156
00:03:42,522 --> 00:03:44,023
EXECUTE RIGHT ON THE SCREEN.

157
00:03:44,023 --> 00:03:45,525
>> SO CHRIS, YOU PERSONALLY

158
00:03:45,525 --> 00:03:47,827
ARE GONNA FLY ON THIS VEHICLE.

159
00:03:47,827 --> 00:03:49,028
AND MAYBE MULTIPLE TIMES

160
00:03:49,028 --> 00:03:49,929
INTO THE FUTURE.

161
00:03:49,929 --> 00:03:50,697
I MEAN, WHO KNOWS?

162
00:03:50,697 --> 00:03:52,098
AND THIS IS HISTORIC.

163
00:03:52,098 --> 00:03:53,499

YOU AS A BOEING ASTRONAUT

164

00:03:53,499 --> 00:03:55,034

ARE REALLY BLAZING A TRAIL.

165

00:03:55,034 --> 00:03:55,868

>> I THINK THAT THIS IS

166

00:03:55,868 --> 00:03:57,003

THE BEGINNING OF SOMETHING

167

00:03:57,003 --> 00:03:58,738

THAT WE'LL SEE A LOT MORE OF.

168

00:03:58,738 --> 00:03:59,839

YOU KNOW, EARLY ON,

169

00:03:59,839 --> 00:04:01,441

WE HAD MILITARY PILOTS

170

00:04:01,441 --> 00:04:03,643

WORK HAND-IN-HAND WITH

171

00:04:03,643 --> 00:04:05,645

THE GOVERNMENT TEST PILOTS

172

00:04:05,645 --> 00:04:07,080

TO DEVELOP AIRPLANES.

173

00:04:07,080 --> 00:04:07,580

AND I THINK WHAT

174

00:04:07,580 --> 00:04:08,615

YOU'RE SEEING NOW IS JUST

175

00:04:08,615 --> 00:04:09,816

THE EXTENSION OF THAT.

176

00:04:09,816 --> 00:04:11,851

>> AS OUR-- AS A-- AS A NATION,

177

00:04:11,851 --> 00:04:14,020

AS ON-- AS-AS AN AGENCY,

178

00:04:14,020 --> 00:04:15,588

WE NEED TO SEE A LOT MORE

179

00:04:15,588 --> 00:04:17,724

COMMERCIAL, UH, ASTRONAUTS

180

00:04:17,724 --> 00:04:18,758

AND A LOT MORE COMMERCIAL

181

00:04:18,758 --> 00:04:20,293

ACTIVITIES IN SPACE.

182

00:04:20,293 --> 00:04:22,028

ULTIMATELY BECAUSE THAT'S HOW--

183

00:04:22,028 --> 00:04:22,695

THAT'S HOW THE FUTURE

184

00:04:22,695 --> 00:04:23,630

IS GONNA BE.

185

00:04:23,630 --> 00:04:25,164

UH, WE NEED TO SEE

186

00:04:25,164 --> 00:04:25,999

LINES OF EFFORT THAT

187

00:04:25,999 --> 00:04:27,767

INCLUDE ADVANCED MANUFACTURING

188

00:04:27,767 --> 00:04:29,736

AND INDUSTRIALIZED BIO-MEDICINE.

189

00:04:29,736 --> 00:04:31,204

IN SPACE, WITH A LOT OF

190

00:04:31,204 --> 00:04:32,538

THE CAPITAL COMING NOT FROM

191

00:04:32,538 --> 00:04:34,007

JUST THE AMERICAN TAXPAYER,

192

00:04:34,007 --> 00:04:35,708

BUT CAPITAL COMING FROM PRIVATE

193

00:04:35,708 --> 00:04:37,543

INDUSTRY IMPROVING THE LIVES

194

00:04:37,543 --> 00:04:39,379

OF HUMANS HERE ON EARTH.

195

00:04:39,379 --> 00:04:39,912

AND THAT'S WHAT

196

00:04:39,912 --> 00:04:40,880

THE COMMERCIAL INDUSTRY

197

00:04:40,880 --> 00:04:41,814

IS ALL ABOUT AND THAT'S WHY

198

00:04:41,814 --> 00:04:43,850

WE NEED COMMERCIAL ASTRONAUTS.

199

00:04:56,496 --> 00:05:10,076

[MUSIC]

200

00:05:10,076 --> 00:05:11,077

>> SO THIS-THIS--

201
00:05:11,077 --> 00:05:11,811
THE VEHICLE THAT WE'RE IN

202
00:05:11,811 --> 00:05:12,578
RIGHT NOW IS CALLED

203
00:05:12,578 --> 00:05:13,579
THE ASTRO VAN.

204
00:05:13,579 --> 00:05:14,247
T-TELL ME,

205
00:05:14,247 --> 00:05:15,114
WHAT DOES THAT MEAN?

206
00:05:15,114 --> 00:05:16,149
WHAT IS THAT ALL ABOUT?

207
00:05:16,149 --> 00:05:17,350
>> THIS IS, UH-- THIS IS

208
00:05:17,350 --> 00:05:18,217
THE SECOND GENERATION

209
00:05:18,217 --> 00:05:18,985
OF ASTRO VAN.

210
00:05:18,985 --> 00:05:20,520
THIS IS WHAT WE'LL USE TO TAKE

211
00:05:20,520 --> 00:05:22,522
THE-THE NASA ASTRONAUTS FROM

212
00:05:22,522 --> 00:05:26,225
CREW QUARTERS, WHICH IS IN, UH,

213
00:05:26,225 --> 00:05:28,094

THE INDUSTRIAL OFFICE AREA,

214

00:05:28,094 --> 00:05:30,063
ABOUT SEVEN MILES OR SO

215

00:05:30,063 --> 00:05:30,997
OUT TO THE LAUNCH PAD.

216

00:05:30,997 --> 00:05:31,698
>> OKAY.

217

00:05:31,698 --> 00:05:32,231
>> SO, TAKES ABOUT

218

00:05:32,231 --> 00:05:33,700
15 MINUTES TO GET THERE.

219

00:05:33,700 --> 00:05:34,467
AND SO, YOU KNOW, WE ALWAYS

220

00:05:34,467 --> 00:05:35,568
USED TO SAY IT'S ONE OF

221

00:05:35,568 --> 00:05:36,969
THE LONGEST, LONELIEST RIDES

222

00:05:36,969 --> 00:05:38,071
YOU'LL, YOU KNOW--

223

00:05:38,071 --> 00:05:39,005
YOU'LL EVER TAKE IN A--

224

00:05:39,005 --> 00:05:40,773
IN AN AIRSTREAM TRAILER.

225

00:05:40,773 --> 00:05:42,275
BUT, UH, AND IT WAS INTERESTING,

226
00:05:42,275 --> 00:05:43,209
ALONG THE WAY YOU DROP OFF

227
00:05:43,209 --> 00:05:44,811
VARIOUS PEOPLE AND THEN

228
00:05:44,811 --> 00:05:45,812
YOU REALIZE THE ONLY PEOPLE

229
00:05:45,812 --> 00:05:47,046
LEFT ON THE VAN WHEN YOU GOT

230
00:05:47,046 --> 00:05:48,381
TO THE LAUNCH PAD WAS THE CREW.

231
00:05:48,381 --> 00:05:49,348
[CHUCKLING]

232
00:05:49,348 --> 00:05:50,683
SO, UH, WE ALWAYS USED TO JOKE

233
00:05:50,683 --> 00:05:51,951
THAT THE SMART ONES GOT OFF.

234
00:05:51,951 --> 00:05:53,920
[CHUCKLING]

235
00:05:57,190 --> 00:05:57,857
>> SO, TORY,

236
00:05:57,857 --> 00:05:59,459
WE'RE AT SLC-41.

237
00:05:59,459 --> 00:06:01,327
UH, TELL US, WHAT IS SLC-41

238
00:06:01,327 --> 00:06:02,895

AND WHAT DO WE HAVE BEHIND US?

239

00:06:02,895 --> 00:06:04,564

>> SO, SLC-41 IS THE HOME OF

240

00:06:04,564 --> 00:06:06,265

THE MIGHTY ATLAS ROCKET.

241

00:06:06,265 --> 00:06:06,899

THIS'LL BE OUR

242

00:06:06,899 --> 00:06:09,168

81st LAUNCH OF THIS ROCKET.

243

00:06:09,168 --> 00:06:11,537

SO THIS GIANT MANIFOLD HERE

244

00:06:11,537 --> 00:06:12,538

IS PART OF OUR

245

00:06:12,538 --> 00:06:14,173

ACOUSTIC SUPPRESSION SYSTEM.

246

00:06:14,173 --> 00:06:15,808

IT'S GONNA SPRAY WATER.

247

00:06:15,808 --> 00:06:17,143

UNMISTAKABLE WHEN YOU SEE

248

00:06:17,143 --> 00:06:18,111

THE LAUNCH GO OFF.

249

00:06:18,111 --> 00:06:19,479

YOU'LL SEE ALL THAT WATER.

250

00:06:19,479 --> 00:06:20,346

MOST PEOPLE THINK

251
00:06:20,346 --> 00:06:21,914
THAT'S FOR FIRE, BUT REALLY

252
00:06:21,914 --> 00:06:23,216
THE INTERESTING THING IS

253
00:06:23,216 --> 00:06:25,451
IT'S NOT, IT'S FOR SOUND.

254
00:06:25,451 --> 00:06:26,352
BECAUSE WHEN THE ROCKET

255
00:06:26,352 --> 00:06:27,620
CLEARS THAT LAUNCH PAD,

256
00:06:27,620 --> 00:06:28,454
THE SOUND COMING OUT OF

257
00:06:28,454 --> 00:06:30,156
THOSE ROCKET MOTORS

258
00:06:30,156 --> 00:06:32,391
AND ROCKET ENGINE IS SO LOUD,

259
00:06:32,391 --> 00:06:33,159
IF IT REFLECTED

260
00:06:33,159 --> 00:06:34,427
BACK OFF THIS PAD,

261
00:06:34,427 --> 00:06:36,028
IT WOULD DAMAGE THE SPACECRAFT.

262
00:06:36,028 --> 00:06:37,930
IN FACT, IF YOU COULD STAND HERE

263
00:06:37,930 --> 00:06:39,565

AND SOMEHOW SURVIVE THE FIRE,

264

00:06:39,565 --> 00:06:41,100

THE SOUND ALONE WOULD KILL YOU.

265

00:06:41,100 --> 00:06:41,968

>> OH, WOW!

266

00:06:41,968 --> 00:06:43,002

>> AND SO ALL OF THAT WATER

267

00:06:43,002 --> 00:06:44,470

PRESENT ON THE PAD ABSORBS

268

00:06:44,470 --> 00:06:45,505

THE ACOUSTIC ENERGY

269

00:06:45,505 --> 00:06:46,572

AND PROTECTS OUR PAYLOAD.

270

00:06:46,572 --> 00:06:47,140

>> WELL, MAKE SURE

271

00:06:47,140 --> 00:06:48,107

THAT WATER WORKS.

272

00:06:48,107 --> 00:06:48,775

CAN WE DO THAT?

273

00:06:48,775 --> 00:06:49,375

>> I WILL ABSOLUTELY

274

00:06:49,375 --> 00:06:50,042

DOUBLE CHECK IT.

275

00:06:50,042 --> 00:06:50,877

>> GOOD.

276
00:06:50,877 --> 00:06:51,577
>> NOW, THOSE BIG, WHITE

277
00:06:51,577 --> 00:06:52,879
CYLINDERS YOU SEE ON THE SIDE

278
00:06:52,879 --> 00:06:54,347
ARE SOLID ROCKET MOTORS.

279
00:06:54,347 --> 00:06:55,782
THEY GIVE US EXTRA IMPULSE

280
00:06:55,782 --> 00:06:57,583
COMING UP OFF THE PAD.

281
00:06:57,583 --> 00:06:59,185
THAT'S A LOT OF PROPELLANT,

282
00:06:59,185 --> 00:07:00,653
AND IT'S GONNA GENERATE

283
00:07:00,653 --> 00:07:02,155
EACH ONE OF THOSE ALMOST

284
00:07:02,155 --> 00:07:04,290
400,000 POUNDS OF THRUST

285
00:07:04,290 --> 00:07:05,191
IN THE CENTER OF THAT

286
00:07:05,191 --> 00:07:06,325
BIG TUBE IN THE MIDDLE,

287
00:07:06,325 --> 00:07:07,760
THE BRONZE COLORED ONE,

288
00:07:07,760 --> 00:07:09,529

THAT'S OUR MAIN PROPELLANT TANK

289

00:07:09,529 --> 00:07:12,398
FOR THE CENTER CORE.

290

00:07:12,398 --> 00:07:14,367
WE CAN STEP UP HERE.

291

00:07:16,602 --> 00:07:18,738
SO THAT'S THE REAL McCOY.

292

00:07:18,738 --> 00:07:20,273
ALL 109,000 POUNDS

293

00:07:20,273 --> 00:07:21,841
OF SOLID PROPELLANT.

294

00:07:21,841 --> 00:07:22,708
>> HMM.

295

00:07:22,708 --> 00:07:23,276
>> AND THAT'S

296

00:07:23,276 --> 00:07:24,544
A HECK OF A VIEW!

297

00:07:24,544 --> 00:07:25,578
>> IT'S PRETTY AWESOME.

298

00:07:25,578 --> 00:07:26,813
>> YEAH.

299

00:07:26,813 --> 00:07:28,981
190 FEET, STRAIGHT UP.

300

00:07:34,887 --> 00:07:35,555
>> HELLO!

301

00:07:35,555 --> 00:07:36,389

>> MR. ADMINISTRATOR.

302

00:07:36,389 --> 00:07:37,089

>> HI!

303

00:07:37,089 --> 00:07:37,857

>> WELCOME TO THE 12th FLOOR.

304

00:07:37,857 --> 00:07:38,457

>> THANK YOU,

305

00:07:38,457 --> 00:07:39,358

IT'S GOOD TO BE HERE.

306

00:07:39,358 --> 00:07:40,092

>> SIR, GOOD TO SEE YOU!

307

00:07:40,092 --> 00:07:40,793

>> NICOLE,

308

00:07:40,793 --> 00:07:41,594

GOOD TO SEE YOU GUYS.

309

00:07:41,594 --> 00:07:42,295

I'LL TELL YOU IT--

310

00:07:42,295 --> 00:07:43,663

IT LOOKS TALL FROM THE GROUND,

311

00:07:43,663 --> 00:07:45,097

BUT WHEN YOU'RE UP HERE,

312

00:07:45,097 --> 00:07:46,299

IT FEELS A LOT TALLER THAN

313

00:07:46,299 --> 00:07:47,567

IT LOOKS FROM THE GROUND.

314

00:07:47,567 --> 00:07:49,335

ESPECIALLY WITH THESE WINDS!

315

00:07:49,335 --> 00:07:49,936

BOY, I TELL YA.

316

00:07:49,936 --> 00:07:50,469

YOU CAN REALLY FEEL

317

00:07:50,469 --> 00:07:51,470

THE WIND WHEN YOU'RE UP HERE,

318

00:07:51,470 --> 00:07:53,439

AND I CAN IMAGINE MAYBE TOMORROW

319

00:07:53,439 --> 00:07:54,674

THE WIND WON'T BE SO HIGH,

320

00:07:54,674 --> 00:07:56,175

BUT, UM, CERTAINLY I CAN

321

00:07:56,175 --> 00:07:57,143

IMAGINE WHEN YOU--

322

00:07:57,143 --> 00:07:58,911

WHEN YOU GO ACROSS THIS--

323

00:07:58,911 --> 00:07:59,712

YOU KNOW, I KNOW IT'S

324

00:07:59,712 --> 00:08:00,980

AN ACCESS ARM, BUT IT LOOKS

325

00:08:00,980 --> 00:08:02,915

LIKE A VERY NARROW CAT WALK,

326

00:08:02,915 --> 00:08:04,217
IF YOU ASK ME!

327

00:08:04,217 --> 00:08:05,017
>> WELL, WE'LL BE COMING

328

00:08:05,017 --> 00:08:06,485
OUT HERE IN OUR SPACE SUITS.

329

00:08:06,485 --> 00:08:06,986
>> YEAH.

330

00:08:06,986 --> 00:08:08,087
>> AND WE'RE GONNA BE--

331

00:08:08,087 --> 00:08:09,522
EVEN THOUGH WE'RE STEELY,

332

00:08:09,522 --> 00:08:10,957
YOU KNOW, AVIATORS, UH,

333

00:08:10,957 --> 00:08:11,557
WE'RE STILL GONNA HAVE,

334

00:08:11,557 --> 00:08:12,825
UH, A LOT OF EMOTIONS.

335

00:08:12,825 --> 00:08:14,060
THIS IS OUR LAST MOMENTS

336

00:08:14,060 --> 00:08:15,194
ON PLANET EARTH BEFORE

337

00:08:15,194 --> 00:08:16,629
WE GO LAUNCH INTO SPACE.

338

00:08:16,629 --> 00:08:17,196

>> YEAH.

339

00:08:17,196 --> 00:08:17,763

>> AND THE WINDS ARE

340

00:08:17,763 --> 00:08:18,598

ACTUALLY A BLESSING

341

00:08:18,598 --> 00:08:19,765

'CAUSE IN SPACE STATION,

342

00:08:19,765 --> 00:08:20,700

THERE IS NO WIND, RIGHT?

343

00:08:20,700 --> 00:08:21,567

>> RIGHT!

344

00:08:21,567 --> 00:08:22,168

>> AND SO EVERYTHING'S

345

00:08:22,168 --> 00:08:23,102

THE SAME ALL THE TIME

346

00:08:23,102 --> 00:08:24,070

AND THEN HERE, WE'RE GETTING

347

00:08:24,070 --> 00:08:25,371

LIKE A KISS FROM MOTHER EARTH.

348

00:08:25,371 --> 00:08:25,972

>> YEAH.

349

00:08:25,972 --> 00:08:27,006

>> AS WE, UH, GET READY.

350

00:08:27,006 --> 00:08:27,974

SO WE WALK ACROSS HERE,

351
00:08:27,974 --> 00:08:29,742
WE WALK DOWN THIS ACCESS ARM.

352
00:08:29,742 --> 00:08:30,877
WE CAN FEEL-- WE CAN FEEL

353
00:08:30,877 --> 00:08:32,044
THE POSITIVE ENERGY FROM

354
00:08:32,044 --> 00:08:32,912
ALL THE PEOPLE WHO WORKED

355
00:08:32,912 --> 00:08:34,380
SO HARD ON THIS MISSION.

356
00:08:34,380 --> 00:08:35,548
AND THEN WE GO IN

357
00:08:35,548 --> 00:08:36,782
AND CLOSE THOSE DOORS.

358
00:08:36,782 --> 00:08:38,084
WE'RE JUST FEELING PROUD,

359
00:08:38,084 --> 00:08:39,085
WE'RE FEELING S--

360
00:08:39,085 --> 00:08:39,919
A LITTLE BIT SCARED,

361
00:08:39,919 --> 00:08:41,320
A LITTLE BIT, UH, ANXIOUS,

362
00:08:41,320 --> 00:08:42,054
BUT WE'RE LIKE,

363
00:08:42,054 --> 00:08:43,489

TOTALLY TRUSTING OUR TRAINING,

364

00:08:43,489 --> 00:08:44,624

WE'RE TOTALLY TRUSTING

365

00:08:44,624 --> 00:08:46,225

TEAM NASA, TEAM BOEING,

366

00:08:46,225 --> 00:08:48,194

AND THE UNITED LAUNCH ALLIANCE.

367

00:08:50,363 --> 00:08:50,863

>> SO OF COURSE YOU CAN

368

00:08:50,863 --> 00:08:52,632

SEE STARLINER, UM,

369

00:08:52,632 --> 00:08:53,566

SITTING THERE ON TOP.

370

00:08:53,566 --> 00:08:54,400

AND THAT'S WHERE, UH,

371

00:08:54,400 --> 00:08:55,902

SPANKY AND I AND FERGY,

372

00:08:55,902 --> 00:08:56,702

WHEN WE CLIMB IN THROUGH

373

00:08:56,702 --> 00:08:57,536

THE CREW ACCESS ARM

374

00:08:57,536 --> 00:08:58,638

RIGHT INTO THE SIDE HATCH,

375

00:08:58,638 --> 00:09:00,072

WE GO, UH, TO STARLINER.

376

00:09:00,072 --> 00:09:00,940

ON THE TOP OF THAT

377

00:09:00,940 --> 00:09:01,874

IS THE IVA HATCH,

378

00:09:01,874 --> 00:09:03,075

AND THAT'S WHAT'S GONNA

379

00:09:03,075 --> 00:09:03,709

DOCK WITH THE INTERNATIONAL

380

00:09:03,709 --> 00:09:04,877

SPACE STATION.

381

00:09:04,877 --> 00:09:06,345

UM, BENEATH STARLINER

382

00:09:06,345 --> 00:09:08,047

YOU CAN SEE THE SERVICE MODULE.

383

00:09:08,047 --> 00:09:08,948

THAT'S WHERE IT HAS A LOT OF

384

00:09:08,948 --> 00:09:10,216

OUR LIFE SUPPORT SYSTEM,

385

00:09:10,216 --> 00:09:11,684

OUR CROP, THE ENGINES

386

00:09:11,684 --> 00:09:13,419

WHILE WE'RE ORBITING, UM,

387

00:09:13,419 --> 00:09:14,820

AND MANEUVERING IN SPACE.

388

00:09:14,820 --> 00:09:15,688

AND THEN BELOW THAT,

389

00:09:15,688 --> 00:09:17,290

YOU CAN SEE THIS AMAZING

390

00:09:17,290 --> 00:09:18,457

ATLAS FLIGHT ROCKET.

391

00:09:18,457 --> 00:09:19,158

>> WELL, I'LL TELL YOU,

392

00:09:19,158 --> 00:09:20,192

WHAT YOU GUYS ARE DOING IS

393

00:09:20,192 --> 00:09:22,128

GONNA INSPIRE THE NATION.

394

00:09:22,128 --> 00:09:23,296

UH, BUT NOT JUST OUR NATION,

395

00:09:23,296 --> 00:09:24,897

ALSO PEOPLE ALL AROUND

396

00:09:24,897 --> 00:09:25,631

THE WORLD THAT ARE GONNA BE

397

00:09:25,631 --> 00:09:26,599

WATCHING THIS SO THANK YOU

398

00:09:26,599 --> 00:09:27,934

SO MUCH FOR WHAT YOU DO.

399

00:09:27,934 --> 00:09:28,768

>> THANKS FOR THE OPPORTUNITY.

400

00:09:28,768 --> 00:09:29,635

>> THANK YOU.

401
00:09:29,635 --> 00:09:30,636
>> THANK YOU SIR, WE'LL DO WELL.

402
00:09:30,636 --> 00:09:32,605
>> ALL RIGHT.

403
00:09:33,539 --> 00:09:34,507
>> SUNI, WHAT ARE WE DOING HERE?

404
00:09:34,507 --> 00:09:35,374
>> SO WE'RE AT

405
00:09:35,374 --> 00:09:37,376
SPACECRAFT LAUNCH COMPLEX 41,

406
00:09:37,376 --> 00:09:38,744
STANDING IN THE SHADOW OF

407
00:09:38,744 --> 00:09:40,246
THE ATLAS V WITH

408
00:09:40,246 --> 00:09:42,214
THE STARLINER ON TOP.

409
00:09:42,214 --> 00:09:44,216
WITH THE CREW ACCESS ARM

410
00:09:44,216 --> 00:09:45,584
CONNECTED TO IT READY,

411
00:09:45,584 --> 00:09:46,719
ACTUALLY, FOR PEOPLE TO

412
00:09:46,719 --> 00:09:48,487
EVENTUALLY GET ON BOARD.

413
00:09:48,487 --> 00:09:50,756

WE GOT ROSIE THE-THE MANNEQUIN

414

00:09:50,756 --> 00:09:53,359

INSIDE THAT, UH, IS INSTRUMENTED

415

00:09:53,359 --> 00:09:54,260

AND SO IT-- WE'RE GONNA GET

416

00:09:54,260 --> 00:09:55,795

SOME DATA TO SEE WHAT

417

00:09:55,795 --> 00:09:57,663

OUR RIDE'S GONNA BE LIKE

418

00:09:57,663 --> 00:09:58,798

WHEN JOSH AND I ACTUALLY

419

00:09:58,798 --> 00:10:00,366

GET TO FLY ON THIS THING,

420

00:10:00,366 --> 00:10:00,933

UM, PROBABLY AT

421

00:10:00,933 --> 00:10:01,801

THE END OF NEXT YEAR.

422

00:10:01,801 --> 00:10:02,301

>> GREAT.

423

00:10:02,301 --> 00:10:03,235

AND JOSH, UM,

424

00:10:03,235 --> 00:10:04,337

WHAT'S YOUR ROLE IN THIS?

425

00:10:04,337 --> 00:10:05,538

>> UH, TO NOT MESS ANYTHING UP

426

00:10:05,538 --> 00:10:07,239
IS THE-- IS THE GOAL TODAY.

427

00:10:07,239 --> 00:10:08,808
UM, THIS IS THE CAPSULE THAT,

428

00:10:08,808 --> 00:10:09,608
UH, SUNI AND I ARE GONNA

429

00:10:09,608 --> 00:10:11,143
HAVE A CHANCE TO FLY IN,

430

00:10:11,143 --> 00:10:12,411
UH, ALONG WITH TWO OTHERS.

431

00:10:12,411 --> 00:10:13,179
AND SO WE'RE FOLLOWING

432

00:10:13,179 --> 00:10:14,380
THE WHOLE PROCESS, UH,

433

00:10:14,380 --> 00:10:15,481
FROM BEGINNING TO END.

434

00:10:15,481 --> 00:10:16,349
UH, AND YOU KNOW,

435

00:10:16,349 --> 00:10:17,650
FROM LAUNCH TOMORROW MORNING

436

00:10:17,650 --> 00:10:19,218
TO DOCKING THE NEXT DAY,

437

00:10:19,218 --> 00:10:20,186
AND TO LANDING A WEEK

438

00:10:20,186 --> 00:10:21,053

AND A HALF LATER.

439

00:10:21,053 --> 00:10:22,455

FOR ME, IT'S JUST A, UH,

440

00:10:22,455 --> 00:10:23,055

A SITUATION WHERE I FIND

441

00:10:23,055 --> 00:10:24,023

MYSELF PINCHING MYSELF.

442

00:10:24,023 --> 00:10:25,358

IT'S JUST, UH-- IT'S INCREDIBLE

443

00:10:25,358 --> 00:10:26,125

TO SEE THIS HAPPEN.

444

00:10:26,125 --> 00:10:27,259

WE'RE LIVING SCIENCE FICTION.

445

00:10:27,259 --> 00:10:27,927

IT'S-IT'S REALLY

446

00:10:27,927 --> 00:10:29,862

HAPPENING RIGHT HERE.

447

00:10:31,030 --> 00:10:31,998

>> WE'VE ACTUALLY DONE A LOT

448

00:10:31,998 --> 00:10:33,733

OF ENGINEERING WORK, UM,

449

00:10:33,733 --> 00:10:35,735

WITH THE BOEING TEAM TO WORK

450

00:10:35,735 --> 00:10:37,670

ON THE SOFTWARE SO WHEN

451
00:10:37,670 --> 00:10:38,904
THE HUMANS ARE INTERACTING,

452
00:10:38,904 --> 00:10:39,438
THEY'VE GOT THAT

453
00:10:39,438 --> 00:10:40,806
SITUATIONAL AWARENESS OF

454
00:10:40,806 --> 00:10:42,174
ALL THE AUTOMATION THAT'S

455
00:10:42,174 --> 00:10:43,709
PROCESSING IN THE SPACECRAFT,

456
00:10:43,709 --> 00:10:45,111
AND HOW WE WOULD RECOGNIZE

457
00:10:45,111 --> 00:10:45,911
IF THERE WAS AN ISSUE OR

458
00:10:45,911 --> 00:10:46,846
A PROBLEM AND HOW WE

459
00:10:46,846 --> 00:10:47,980
WOULD INTERACT WITH IT.

460
00:10:47,980 --> 00:10:50,049
>> WE'RE LOOKING AT

461
00:10:50,049 --> 00:10:51,050
WHERE OUR FUTURE IS.

462
00:10:51,050 --> 00:10:53,119
WE HAVE A 400 BILLION DOLLAR

463
00:10:53,119 --> 00:10:54,787

SPACE ECONOMY.

464

00:10:54,787 --> 00:10:56,555

WHAT YOU'RE DOING IS

465

00:10:56,555 --> 00:10:58,424

LEADING THE WAY

466

00:10:58,424 --> 00:11:00,226

FOR THAT SPACE ECONOMY.

467

00:11:00,226 --> 00:11:02,395

LOWERING THE COST OF

468

00:11:02,395 --> 00:11:04,530

SPACE TRAVEL AND PROVIDING

469

00:11:04,530 --> 00:11:07,533

MORE ACCESS TO MORE HUMANS

470

00:11:07,533 --> 00:11:09,835

ON EARTH TO GET TO SPACE.

471

00:11:09,835 --> 00:11:10,870

IT'S ABOUT EXPANDING

472

00:11:10,870 --> 00:11:12,538

THE HUMAN CONDITION

473

00:11:12,538 --> 00:11:14,640

BY FINDING NEW KNOWLEDGE.

474

00:11:14,640 --> 00:11:16,042

AND I'M JUST SO PROUD

475

00:11:16,042 --> 00:11:16,776

TO BE WITH YOU,

476
00:11:16,776 --> 00:11:17,676
BUT THAT'S WHAT--

477
00:11:17,676 --> 00:11:19,078
THAT'S WHY WE'RE HERE.

478
00:11:19,078 --> 00:11:19,745
SO I THANK YOU

479
00:11:19,745 --> 00:11:21,614
FOR WHAT YOU'RE DOING.

480
00:11:25,084 --> 00:11:26,118
>> THIS IS A NEW ERA

481
00:11:26,118 --> 00:11:28,354
IN HUMAN SPACE FLIGHT.

482
00:11:28,354 --> 00:11:29,622
AND THERE'S A NUMBER OF REASONS

483
00:11:29,622 --> 00:11:31,524
WHY THIS DAY IS SO IMPORTANT.

484
00:11:31,524 --> 00:11:33,559
WE ARE ON THE CUSP OF LAUNCHING,

485
00:11:33,559 --> 00:11:36,162
ONCE AGAIN, AMERICAN ASTRONAUTS

486
00:11:36,162 --> 00:11:37,630
ON AMERICAN ROCKETS

487
00:11:37,630 --> 00:11:39,098
FROM AMERICAN SOIL FOR

488
00:11:39,098 --> 00:11:41,200

THE FIRST TIME SINCE 2011,

489

00:11:41,200 --> 00:11:41,867

THE RETIREMENT OF

490

00:11:41,867 --> 00:11:42,935

THE SPACE SHUTTLE.

491

00:11:42,935 --> 00:11:44,270

SO THIS IS A BIG DAY!

492

00:11:44,270 --> 00:11:45,037

>> HOW MANY OF YOU HAVE SEEN

493

00:11:45,037 --> 00:11:46,072

A ROCKET LAUNCH BEFORE?

494

00:11:46,072 --> 00:11:47,907

CAN I GET A SHOW OF HANDS?

495

00:11:47,907 --> 00:11:48,941

AW MAN, YOU GOT--

496

00:11:48,941 --> 00:11:50,142

OKAY, HOW MANY HAVE NOT?

497

00:11:50,142 --> 00:11:50,910

LET ME PUT IT THAT WAY.

498

00:11:50,910 --> 00:11:51,911

THAT'S-- THIS IS THE GROUP

499

00:11:51,911 --> 00:11:52,912

I WANT TO TALK TO.

500

00:11:52,912 --> 00:11:53,746

[LAUGHTER]

501
00:11:53,746 --> 00:11:54,580
ALL RIGHT?

502
00:11:54,580 --> 00:11:55,448
ANY TIME A ROCKET SHIP

503
00:11:55,448 --> 00:11:56,715
LEAVES PLANET EARTH,

504
00:11:56,715 --> 00:11:57,550
IT IS AN EXPERIENCE--

505
00:11:57,550 --> 00:11:58,951
I DON'T CARE WHAT'S ON IT.

506
00:11:58,951 --> 00:12:01,053
AND, UM, YOU-YOU SEE IT,

507
00:12:01,053 --> 00:12:02,822
YOU FEEL IT, YOU EXPERIENCE IT.

508
00:12:02,822 --> 00:12:04,657
IT'S EMOTIONAL!

509
00:12:06,092 --> 00:12:07,126
>> WELCOME THIS MORNING TO

510
00:12:07,126 --> 00:12:08,627
NASA'S KENNEDY SPACE CENTER

511
00:12:08,627 --> 00:12:11,030
IN FLORIDA.

512
00:12:11,030 --> 00:12:12,064
>> STARLINER IS NEARLY

513
00:12:12,064 --> 00:12:13,299

READY FOR OUR ON-CREW TO

514

00:12:13,299 --> 00:12:14,033

ORBITAL FLIGHT TEST.

515

00:12:14,033 --> 00:12:14,700

YOU CAN SEE IT

516

00:12:14,700 --> 00:12:15,601

OVER OUR SHOULDER.

517

00:12:15,601 --> 00:12:17,636

IT'S LIT UP ON THE LAUNCH PAD.

518

00:12:19,638 --> 00:12:22,441

>> TEN, NINE, EIGHT,

519

00:12:22,441 --> 00:12:26,278

SEVEN, SIX, FIVE, FOUR,

520

00:12:26,278 --> 00:12:29,748

THREE, TWO, ONE.

521

00:12:29,748 --> 00:12:30,616

>> OH MY GOD.

522

00:12:30,616 --> 00:12:31,984

>> AND LIFTOFF.

523

00:12:31,984 --> 00:12:33,552

THE RISE OF STARLINER,

524

00:12:33,552 --> 00:12:36,288

A NEW ERA IN HUMAN SPACEFLIGHT.

525

00:12:36,288 --> 00:12:40,059

[ROCKETS FIRING]

526
00:13:20,232 --> 00:12:56,575
[MUSIC]

527
00:13:21,233 --> 00:13:23,135
>> AND ATLAS V IS NOW

528
00:13:23,135 --> 00:13:24,236
TRAVELING AT OVER FIVE TIMES

529
00:13:24,236 --> 00:13:26,071
THE SPEED OF SOUND.

530
00:13:29,041 --> 00:13:29,942
AND WE HAVE THE ECO-BOOSTER

531
00:13:29,942 --> 00:13:31,010
ENGINE CUT OFF, STANDING BY

532
00:13:31,010 --> 00:13:33,145
FOR STAGE SEPARATION.

533
00:13:35,581 --> 00:13:36,415
AND WE HAVE GOOD INDICATION

534
00:13:36,415 --> 00:13:38,417
OF STAGE SEPARATION.

535
00:13:38,417 --> 00:13:42,655
[APPLAUSE]

536
00:14:11,317 --> 00:13:50,930
[MUSIC]

537
00:14:24,663 --> 00:14:25,397
>> WE HAD A GREAT LAUNCH

538
00:14:25,397 --> 00:14:26,599

THIS MORNING.

539

00:14:26,599 --> 00:14:27,700
AND THE STARLINER IS NOW

540

00:14:27,700 --> 00:14:28,801
IN ORBIT AROUND THE EARTH,

541

00:14:28,801 --> 00:14:29,668
AND THAT'S BECAUSE OF

542

00:14:29,668 --> 00:14:31,203
THE GREAT WORK THAT YOU HERE

543

00:14:31,203 --> 00:14:32,404
AT BOEING HAVE DONE WITH

544

00:14:32,404 --> 00:14:33,939
YOUR PARTNERS AT NASA.

545

00:14:33,939 --> 00:14:35,007
THAT'S IMPORTANT AND IT

546

00:14:35,007 --> 00:14:36,008
NEEDS TO BE RECOGNIZED.

547

00:14:36,008 --> 00:14:36,575
AND I KNOW,

548

00:14:36,575 --> 00:14:37,977
I SEE AS I LOOK AROUND,

549

00:14:37,977 --> 00:14:38,811
I SEE A LOT OF PEOPLE THAT

550

00:14:38,811 --> 00:14:40,179
ARE CONCERNED AND WORRIED ABOUT

551
00:14:40,179 --> 00:14:42,114
THE FACT THAT THE INSERTION BURN

552
00:14:42,114 --> 00:14:44,083
DID NOT GO ACCORDING TO PLAN.

553
00:14:44,083 --> 00:14:44,783
AND IT'S OF COURSE

554
00:14:44,783 --> 00:14:45,784
A CONCERN TO ME, AS WELL.

555
00:14:45,784 --> 00:14:47,620
IT'S A CONCERN TO ALL OF US.

556
00:14:47,620 --> 00:14:49,888
BUT-BUT HERE'S WHY WE TEST,

557
00:14:49,888 --> 00:14:50,456
BECAUSE WE'RE GONNA

558
00:14:50,456 --> 00:14:51,590
LEARN THINGS.

559
00:14:51,590 --> 00:14:52,891
AND FROM WHAT WE LEARNED,

560
00:14:52,891 --> 00:14:53,859
WE'RE GONNA MAKE CHANGES

561
00:14:53,859 --> 00:14:55,160
AND WE WILL MOVE FORWARD.

562
00:14:55,160 --> 00:14:56,729
THAT'S WHAT WE DO.

563
00:14:56,729 --> 00:14:58,464

UM, AND SO THIS IS A--

564

00:14:58,464 --> 00:14:59,632

THIS IS A GOOD DAY.

565

00:14:59,632 --> 00:15:00,899

IT'S A GOOD DAY.

566

00:15:00,899 --> 00:15:02,401

>> WE TRAIN EXTENSIVELY FOR

567

00:15:02,401 --> 00:15:04,570

THIS TYPE OF CONTINGENCY.

568

00:15:04,570 --> 00:15:07,006

AND, HAD WE BEEN ON BOARD,

569

00:15:07,006 --> 00:15:08,073

THERE-THERE COULD HAVE BEEN

570

00:15:08,073 --> 00:15:08,774

ACTIONS THAT WE

571

00:15:08,774 --> 00:15:09,808

COULD HAVE TAKEN.

572

00:15:09,808 --> 00:15:11,577

BUT THIS VEHICLE IS A NEW LEVEL

573

00:15:11,577 --> 00:15:12,544

OF AUTOMATION THAT WE'VE

574

00:15:12,544 --> 00:15:14,346

NEVER SEEN BEFORE.

575

00:15:14,346 --> 00:15:15,114

AND SO, WHAT WE'RE

576

00:15:15,114 --> 00:15:15,714

REALLY DOING IS WE'RE

577

00:15:15,714 --> 00:15:17,116

TESTING THAT AUTOMATION,

578

00:15:17,116 --> 00:15:18,217

AND THAT'S WHY YOU HAVE

579

00:15:18,217 --> 00:15:19,885

TEST PILOTS ON BOARD,

580

00:15:19,885 --> 00:15:20,552

ESPECIALLY FOR THESE

581

00:15:20,552 --> 00:15:21,587

EARLY MISSIONS.

582

00:15:21,587 --> 00:15:22,621

THAT'S OUR JOB,

583

00:15:22,621 --> 00:15:23,956

THAT'S WHAT WE'RE TRAINED TO DO.

584

00:15:23,956 --> 00:15:25,424

WE ARE LOOKING FORWARD TO

585

00:15:25,424 --> 00:15:26,859

FLYING ON STARLINER.

586

00:15:26,859 --> 00:15:27,493

UH, WE DON'T HAVE

587

00:15:27,493 --> 00:15:29,261

ANY SAFETY CONCERNS.

588

00:15:29,261 --> 00:15:31,163

EVERYTHING ON THE ASCENT,

589

00:15:31,163 --> 00:15:32,231

ALL THE SYSTEMS THAT

590

00:15:32,231 --> 00:15:34,099

WOULD KEEP US SAFE HAVE

591

00:15:34,099 --> 00:15:36,302

FUNCTIONED PROPERLY ON, UH,

592

00:15:36,302 --> 00:15:37,770

THE LAUNCH AND CURRENTLY

593

00:15:37,770 --> 00:15:38,404

ON THE VEHICLE.

594

00:15:38,404 --> 00:15:39,038

WE'RE LOOKING FORWARD TO

595

00:15:39,038 --> 00:15:40,072

ALL THE TEST DATA,

596

00:15:40,072 --> 00:15:40,873

AND WE'RE LOOKING FORWARD

597

00:15:40,873 --> 00:15:43,242

TO LANDING AT WHITE SANDS.

598

00:15:43,242 --> 00:15:44,376

>> GOOD MORNING FROM STARLINER

599

00:15:44,376 --> 00:15:46,045

MISSION CONTROL IN HOUSTON.

600

00:15:46,045 --> 00:15:48,814

IT'S DECEMBER 22nd, 2019,

601
00:15:48,814 --> 00:15:49,982
AND WE THINK THIS WILL BE

602
00:15:49,982 --> 00:15:51,417
A DAY TO REMEMBER.

603
00:15:51,417 --> 00:15:52,851
>> WE HAVE CHOSE THE LONGEST

604
00:15:52,851 --> 00:15:53,852
NIGHT OF THE YEAR TO

605
00:15:53,852 --> 00:15:55,087
BRING STARLINER HOME.

606
00:15:55,087 --> 00:15:56,188
HAPPY WINTER SOLSTICE

607
00:15:56,188 --> 00:15:58,490
TO EVERYONE.

608
00:15:59,892 --> 00:16:00,993
STARLINER FLIGHT CONTROL TEAMS

609
00:16:00,993 --> 00:16:01,827
HAVE BEEN WORKING AROUND

610
00:16:01,827 --> 00:16:02,895
THE CLOCK TO GET STARLINER

611
00:16:02,895 --> 00:16:04,997
SET UP FOR A SAFE LANDING,

612
00:16:04,997 --> 00:16:07,232
AND TODAY IS THE DAY.

613
00:16:09,768 --> 00:16:11,103

ENTIRE TEAM HERE IN THE ROOM IS,

614

00:16:11,103 --> 00:16:13,339

UH, QUIETLY WATCHING.

615

00:16:13,339 --> 00:16:14,340

MAKING SURE ALL THE SYSTEMS

616

00:16:14,340 --> 00:16:18,143

CONTINUE TO LOOK GOOD.

617

00:16:18,143 --> 00:16:20,412

>> AND WE SEE THREE MAIN CHUTES.

618

00:16:23,048 --> 00:16:22,348

THREE MAIN CHUTES.

619

00:16:23,048 --> 00:16:24,383

WE SEE THE RED, WHITE, AND BLUE

620

00:16:24,383 --> 00:16:28,053

AS STARLINER DESCENDS.

621

00:16:28,053 --> 00:16:29,621

BASE HEAT SHIELD HAS JETTISONED,

622

00:16:29,621 --> 00:16:31,190

THAT WAS THE BASE HEAT SHIELD

623

00:16:31,190 --> 00:16:33,158

FALLING AWAY AS PLANNED.

624

00:16:33,158 --> 00:16:35,461

AIRBAGS ARE INFLATING.

625

00:16:35,461 --> 00:16:35,961

>> AND THAT IS

626
00:16:35,961 --> 00:16:37,129
THE LAST OF THE MILESTONES,

627
00:16:37,129 --> 00:16:37,963
SO NOW ALL THAT'S LEFT IS

628
00:16:37,963 --> 00:16:39,398
FOR STARLINER TO FLOAT DOWN

629
00:16:39,398 --> 00:16:42,301
TO THE SURFACE OF THE DESERT.

630
00:16:42,301 --> 00:16:44,269
>> AND STARLINER TOUCHES DOWN

631
00:16:44,269 --> 00:16:45,771
IN THE DESERT IN NEW MEXICO.

632
00:16:45,771 --> 00:16:46,805
A HISTORIC LANDING IN

633
00:16:46,805 --> 00:16:48,073
WHITE SANDS, NEW MEXICO

634
00:16:48,073 --> 00:16:49,508
CONCLUDES THE FIRST FLIGHT TEST

635
00:16:49,508 --> 00:16:51,543
OF BOEING STARLINER SPACECRAFT.

636
00:16:51,543 --> 00:16:53,178
THE FIRST TIME AN AMERICAN-MADE,

637
00:16:53,178 --> 00:16:54,346
HUMAN-RATED CAPSULE

638
00:16:54,346 --> 00:16:56,148

HAS LANDED ON LAND.

639

00:16:56,148 --> 00:16:58,183

>> CONGRATULATIONS, STARLINER.

640

00:16:58,183 --> 00:17:00,619

>> CONGRATULATIONS, INDEED.

641

00:17:00,619 --> 00:17:01,286

>> THIS IS THE OUR FIRST

642

00:17:01,286 --> 00:17:02,121

SPACECRAFT LANDING.

643

00:17:02,121 --> 00:17:03,689

IT WAS, UH, INCREDIBLE TO SEE.

644

00:17:03,689 --> 00:17:04,656

WE'RE SO EXCITED FOR

645

00:17:04,656 --> 00:17:05,991

THE BOEING AND NASA TEAM

646

00:17:05,991 --> 00:17:07,426

AND THE RECOVERY FORCES TODAY.

647

00:17:07,426 --> 00:17:09,061

DID AN INCREDIBLE JOB.

648

00:17:09,061 --> 00:17:10,696

>> YEAH WE GOT A LOT OF DATA ON,

649

00:17:10,696 --> 00:17:11,997

UH, THE LAUNCH.

650

00:17:11,997 --> 00:17:13,198

THE ORBITAL, UH,

651

00:17:13,198 --> 00:17:14,333

PORTION OF THE FLIGHT.

652

00:17:14,333 --> 00:17:15,401

>> BEING ABLE TO JUST WATCH

653

00:17:15,401 --> 00:17:16,435

THE ENTIRE SEQUENCE FROM

654

00:17:16,435 --> 00:17:18,504

THE GROUND ON DOWN WAS, UH--

655

00:17:18,504 --> 00:17:19,571

WAS JUST FANTASTIC.

656

00:17:19,571 --> 00:17:20,873

REALLY CLEAN LANDING.

657

00:17:20,873 --> 00:17:22,040

>> WE HAD A BEAUTIFUL,

658

00:17:22,040 --> 00:17:23,842

AMAZING TEAM ALL OUT HERE

659

00:17:23,842 --> 00:17:24,743

READY TO SUPPORT.

660

00:17:24,743 --> 00:17:25,644

EVERYBODY WAS PUMPED,

661

00:17:25,644 --> 00:17:26,612

EVERYBODY WAS CHEERING.

662

00:17:26,612 --> 00:17:28,113

IT WAS-- IT WAS SPECTACULAR.

663

00:17:28,113 --> 00:17:28,947

I MEAN, IT--

664

00:17:28,947 --> 00:17:30,649
SHE'S BACK, SHE'S HOME.

665

00:17:30,649 --> 00:17:31,683
>> WE ARE REALLY,

666

00:17:31,683 --> 00:17:32,351
FIRST AND FOREMOST,

667

00:17:32,351 --> 00:17:33,185
PLEASED WITH HOW THIS

668

00:17:33,185 --> 00:17:34,420
TEAM CAME TOGETHER.

669

00:17:34,420 --> 00:17:36,655
FLYING A DIFFERENT TRAJECTORY,

670

00:17:36,655 --> 00:17:37,556
DIFFERENT ARROW SHAPE,

671

00:17:37,556 --> 00:17:38,857
YOU CAN ONLY TEST THAT AT SCALE.

672

00:17:38,857 --> 00:17:40,259
THAT WENT TERRIFIC.

673

00:17:40,259 --> 00:17:41,627
RETURN IS SOMETHING THAT

674

00:17:41,627 --> 00:17:42,761
YOU CAN'T REALLY TEST,

675

00:17:42,761 --> 00:17:43,295
YOU HAVE TO PUT YOUR

676

00:17:43,295 --> 00:17:44,696

HEAT SHIELD ON AND GO

677

00:17:44,696 --> 00:17:45,664

THROUGH THE HEAT REGIME.

678

00:17:45,664 --> 00:17:47,366

TODAY, WE JUST HAD-- IT REALLY

679

00:17:47,366 --> 00:17:48,901

COULDN'T HAVE GONE ANY BETTER.

680

00:17:48,901 --> 00:17:50,302

THE GROUND CREW IS CHRIS,

681

00:17:50,302 --> 00:17:51,670

NICOLE, MIKE-- THEY'RE--

682

00:17:51,670 --> 00:17:52,571

THEY'RE TELLING US THERE'S

683

00:17:52,571 --> 00:17:53,939

HARDLY ANY CHARRING.

684

00:17:53,939 --> 00:17:55,741

PERFECTLY LEVEL ON HER AIRBAGS,

685

00:17:55,741 --> 00:17:56,675

AND THAT BODES REALLY WELL

686

00:17:56,675 --> 00:17:57,976

FOR USABILITY.

687

00:17:57,976 --> 00:17:59,311

FROM AN OVERALL PERSPECTIVE,

688

00:17:59,311 --> 00:18:00,879

WE ARE JUST AS PLEASED AS

689

00:18:00,879 --> 00:18:04,216

WE COULD BE WITH THE DESIGN.

690

00:18:04,216 --> 00:18:05,083

>> I WOULD SAY THE TEAM

691

00:18:05,083 --> 00:18:07,352

DID JUST A TREMENDOUS JOB.

692

00:18:07,352 --> 00:18:08,620

WHAT YOU FIND SOMETIMES IS

693

00:18:08,620 --> 00:18:10,322

WHEN YOU EXECUTE A FLIGHT

694

00:18:10,322 --> 00:18:11,590

DIFFERENTLY THAN PLANNED

695

00:18:11,590 --> 00:18:12,758

IN A MISSION TEST-FLIGHT

696

00:18:12,758 --> 00:18:13,592

DIFFERENTLY THAN PLANNED,

697

00:18:13,592 --> 00:18:14,526

THAT TEAM COMES TOGETHER

698

00:18:14,526 --> 00:18:15,394

IN A UNIQUE WAY.

699

00:18:15,394 --> 00:18:16,628

AND THE NASA TEAM,

700

00:18:16,628 --> 00:18:17,529

THE NASA ENGINEERS,

701
00:18:17,529 --> 00:18:18,831
THE FLIGHT CONTROL TEAM,

702
00:18:18,831 --> 00:18:19,398
THE BOEING TEAM,

703
00:18:19,398 --> 00:18:20,499
WORKING SIDE BY SIDE TO

704
00:18:20,499 --> 00:18:22,501
SOLVE PROBLEMS IN REAL TIME,

705
00:18:22,501 --> 00:18:22,968
TO COME UP WITH

706
00:18:22,968 --> 00:18:23,869
INNOVATIVE SOLUTIONS,

707
00:18:23,869 --> 00:18:25,170
TO KEEP DECISIONS AHEAD OF THEM,

708
00:18:25,170 --> 00:18:26,738
AND THEN TO END UP LIKE TODAY

709
00:18:26,738 --> 00:18:28,407
WHERE WE HAD A SUCCESSFUL, UM,

710
00:18:28,407 --> 00:18:29,308
DE-ORBIT BURNING ENTRY

711
00:18:29,308 --> 00:18:30,442
AND LANDING.

712
00:18:30,442 --> 00:18:31,510
IF I LOOK BACK AT THIS YEAR

713
00:18:31,510 --> 00:18:32,177

FROM A COMMERCIAL CREW

714

00:18:32,177 --> 00:18:33,512
PERSPECTIVE AS A PROGRAM,

715

00:18:33,512 --> 00:18:34,279
YOU KNOW, WE'VE HAD

716

00:18:34,279 --> 00:18:35,781
A TREMENDOUS YEAR.

717

00:18:35,781 --> 00:18:36,415
WITH THE HOLIDAYS

718

00:18:36,415 --> 00:18:37,216
IN FRONT OF THEM,

719

00:18:37,216 --> 00:18:38,383
THEY JUST DID A TREMENDOUS JOB,

720

00:18:38,383 --> 00:18:40,419
AND SO MY HAT'S OFF TO THEM.

721

00:18:43,589 --> 00:18:44,490
>> SO, NUMBER ONE,

722

00:18:44,490 --> 00:18:45,657
CONGRATULATIONS.

723

00:18:45,657 --> 00:18:47,526
I KNOW, UH, THE LAST 48 HOURS

724

00:18:47,526 --> 00:18:48,994
HAVE NOT BEEN EASY.

725

00:18:48,994 --> 00:18:50,195
SO WHEN YOU THINK ABOUT

726

00:18:50,195 --> 00:18:51,363

A MISSION LIKE THIS,

727

00:18:51,363 --> 00:18:52,664

OR A TEST FLIGHT LIKE THIS,

728

00:18:52,664 --> 00:18:54,399

WHEN YOU THINK ABOUT THIS--

729

00:18:54,399 --> 00:18:55,767

LAUNCH, OF COURSE,

730

00:18:55,767 --> 00:18:56,902

IS A BIG CHALLENGE

731

00:18:56,902 --> 00:18:58,570

THAT HAS TO BE OVERCOME.

732

00:18:58,570 --> 00:18:59,671

THAT HAPPENED.

733

00:18:59,671 --> 00:19:00,806

FLYING THE SPACECRAFT

734

00:19:00,806 --> 00:19:01,440

AND MAKING SURE THAT

735

00:19:01,440 --> 00:19:02,908

THE SYSTEMS WORKED?

736

00:19:02,908 --> 00:19:04,109

THAT HAPPENED.

737

00:19:04,109 --> 00:19:05,677

ENTRY DESCENT AND LANDING?

738

00:19:05,677 --> 00:19:06,678

HAPPENED.

739

00:19:06,678 --> 00:19:07,946
WE'RE GONNA GET A LOT OF DATA,

740

00:19:07,946 --> 00:19:08,413
WE'RE GONNA GET

741

00:19:08,413 --> 00:19:09,748
A LOT OF INFORMATION,

742

00:19:09,748 --> 00:19:11,149
BUT A LOT OF REALLY,

743

00:19:11,149 --> 00:19:12,651
REALLY GOOD THINGS HAPPENED

744

00:19:12,651 --> 00:19:13,685
ON THIS TEST FLIGHT.

745

00:19:13,685 --> 00:19:15,454
IT IS ALSO TRUE THAT,

746

00:19:15,454 --> 00:19:17,155
WHEN THINGS GO WRONG,

747

00:19:17,155 --> 00:19:18,023
THAT'S WHEN YOU LEARN

748

00:19:18,023 --> 00:19:19,658
HOW THE TEAMS WORK.

749

00:19:19,658 --> 00:19:20,993
I'M TELLING YOU,

750

00:19:20,993 --> 00:19:22,361
THAT WAS A THING OF BEAUTY.

751
00:19:22,361 --> 00:19:23,862
UM, AND EVERYTHING THAT

752
00:19:23,862 --> 00:19:25,130
I'VE BEEN TOLD FROM THE PEOPLE

753
00:19:25,130 --> 00:19:26,465
THAT WERE IN THE ROOM.

754
00:19:26,465 --> 00:19:28,267
DECISIONS WERE MADE QUICKLY.

755
00:19:28,267 --> 00:19:29,368
UM, THINGS HAPPENED

756
00:19:29,368 --> 00:19:31,203
THAT WERE NOT PLANNED.

757
00:19:31,203 --> 00:19:32,804
UM, AND BECAUSE OF THAT,

758
00:19:32,804 --> 00:19:35,140
THIS TEST FLIGHT WAS ACTUALLY

759
00:19:35,140 --> 00:19:36,275
VERY SUCCESSFUL IN SO,

760
00:19:36,275 --> 00:19:37,776
SO MANY WAYS.

761
00:19:37,776 --> 00:19:39,244
SO THANK YOU FOR ALL OF

762
00:19:39,244 --> 00:19:41,213
YOUR SERVICE TO THE COUNTRY

763
00:19:41,213 --> 00:19:42,548

AND ALL OF YOUR SERVICE TO--

764

00:19:42,548 --> 00:19:43,515
TO NASA.

765

00:19:43,515 --> 00:19:44,883
SO, THANK YOU.