

1
00:00:33,466 --> 00:00:36,069
Good Morning. I'm Stephanie Schierholz

2
00:00:36,136 --> 00:00:38,605
with NASA's Office of Communications.

3
00:00:38,671 --> 00:00:41,641
Welcome to our over overview briefing

4
00:00:41,708 --> 00:00:45,111
for NASA's Artemis 1 mission. The agency

5
00:00:45,178 --> 00:00:47,747
is currently targeting no earlier than

6
00:00:47,814 --> 00:00:50,950
Monday August 29th for liftoff of the

7
00:00:51,017 --> 00:00:53,253
Space Launch System. The rocket that will

8
00:00:53,319 --> 00:00:55,655
propel the Orion spacecraft on its

9
00:00:55,722 --> 00:00:58,124
mission around the moon and back to

10
00:00:58,191 --> 00:00:59,159
earth.

11
00:00:59,225 --> 00:01:01,561
The first in a series of increasingly

12
00:01:01,628 --> 00:01:03,430
complex missions,

13
00:01:03,496 --> 00:01:06,299

Artemis one will be an uncrewed flight

14

00:01:06,366 --> 00:01:08,868

test that will provide a foundation for

15

00:01:08,935 --> 00:01:11,671

deep space exploration and demonstrate

16

00:01:11,738 --> 00:01:14,707

our commitment and capability to extend

17

00:01:14,774 --> 00:01:17,644

human existence to the moon and onto

18

00:01:17,710 --> 00:01:18,845

Mars.

19

00:01:18,912 --> 00:01:20,780

We have several experts here to talk

20

00:01:20,847 --> 00:01:22,782

with us today about the Artemis one

21

00:01:22,849 --> 00:01:23,817

mission.

22

00:01:23,883 --> 00:01:26,052

Here in the room with me are NASA

23

00:01:26,119 --> 00:01:30,256

Administrator Bill Nelson

24

00:01:30,690 --> 00:01:32,926

Mike Serafin the Artemis one mission

25

00:01:32,992 --> 00:01:36,763

manager here at NASA Headquarters

26
00:01:36,996 --> 00:01:39,566
Pavia Lal Associate Administrator for

27
00:01:39,632 --> 00:01:42,535
Technology Policy and Strategy at NASA

28
00:01:42,602 --> 00:01:44,838
Headquarters

29
00:01:45,071 --> 00:01:47,407
Joining us from Kennedy Space Center in

30
00:01:47,474 --> 00:01:48,608
Florida

31
00:01:48,675 --> 00:01:51,110
is Charlie Blackwell Thompson the

32
00:01:51,177 --> 00:01:54,914
Artemis one launch director

33
00:01:55,548 --> 00:01:57,484
Joining from NASA's Marshall Space

34
00:01:57,550 --> 00:02:00,119
Flight Center in Huntsville we have John

35
00:02:00,186 --> 00:02:02,922
Honeycutt, the Space Launch System Program

36
00:02:02,989 --> 00:02:08,361
Manager

37
00:02:08,428 --> 00:02:09,662
JOINING US FROM JOHNSON SPACE

38
00:02:09,729 --> 00:02:11,965

CENTER IN HOUSTON IS HOWARD HU,

39

00:02:12,031 --> 00:02:15,301

THE ORION PROGRAM MANAGER.

40

00:02:15,368 --> 00:02:17,203

THEN SPEAKERS WILL SHARE OPENING

41

00:02:17,270 --> 00:02:18,605

REMARKS, THEN, WE'LL TAKE

42

00:02:18,671 --> 00:02:21,007

QUESTIONS FROM REPORTERS ON THE

43

00:02:21,074 --> 00:02:21,841

PHONE LINE.

44

00:02:21,908 --> 00:02:23,977

REPORTERS CAN ENTER THE CUE BY

45

00:02:24,043 --> 00:02:25,278

PRESSING STAR ONE ON THE PHONE

46

00:02:25,345 --> 00:02:26,546

AT ANY TIME.

47

00:02:26,613 --> 00:02:30,383

FIRST WE HAVE REMARKS FROM NASA

48

00:02:30,450 --> 00:02:31,451

ADMINISTRATOR BILL NELSON.

49

00:02:31,518 --> 00:02:39,359

[APPLAUSE]

50

00:02:39,425 --> 00:02:47,700

TO THIS NAE NASA FAMILY THANK

51
00:02:47,767 --> 00:02:49,636
YOU FOR WHAT YOU DO EVERY DAY.

52
00:02:49,702 --> 00:02:51,971
YOU MAKE THE IMPOSSIBLE

53
00:02:52,038 --> 00:02:52,472
POSSIBLE.

54
00:02:52,539 --> 00:02:53,306
THANK YOU, STEPHANIE.

55
00:02:53,373 --> 00:02:55,675
26 DAYS THE MOST POWERFUL ROCKET

56
00:02:55,742 --> 00:03:00,880
EVER BUILT.

57
00:03:00,947 --> 00:03:18,998
NO STRANGER TO MONSTER ROCKETS.

58
00:03:19,065 --> 00:03:20,199
SATURN 5 WAS THERE IT TOOK US TO

59
00:03:20,266 --> 00:03:22,569
THE MOON A HALF CENTURY GO AND

60
00:03:22,635 --> 00:03:25,405
NOW AS WE EMBARKING ON THIS

61
00:03:25,471 --> 00:03:27,040
FIRST ARTEMIS TEST FLIGHT WE

62
00:03:27,106 --> 00:03:30,710
RECALL THIS AGENCY STORIED PAST.

63
00:03:30,777 --> 00:03:35,748

BUT OUR EYES ARE FOCUSED ON THE

64

00:03:35,815 --> 00:03:39,185

IMMEDIATE FUTURE BUT OUT THERE.

65

00:03:39,252 --> 00:03:41,988

IT IS A FUTURE WHERE NASA WILL

66

00:03:42,055 --> 00:03:44,524

LAND THE FIRST WOMANED THE FIRST

67

00:03:44,591 --> 00:03:47,760

PERSON OF COLOR ON THE MOON.

68

00:03:47,827 --> 00:03:51,831

AND ON THESE INCREASINGLY

69

00:03:51,898 --> 00:03:53,333

COMPLEX MISSIONS.

70

00:03:53,399 --> 00:03:55,568

ASTRONAUTS WILL LIVE AND WORK IN

71

00:03:55,635 --> 00:03:57,870

DEEP SPACE AND WILL DEVELOP THE

72

00:03:57,937 --> 00:03:59,806

SCIENCE AND TECHNOLOGY TO SEND

73

00:03:59,872 --> 00:04:02,075

THE FIRST HUMANS TO MARS.

74

00:04:02,141 --> 00:04:04,110

WE ARE GOING TO MARS.

75

00:04:04,177 --> 00:04:06,779

WE ARE GOING BACK TO THE MOON IN

76
00:04:06,846 --> 00:04:11,951
ORDER TO LEARN TO LIVE TO WORK,

77
00:04:12,018 --> 00:04:13,753
TO TO SURVIVE.

78
00:04:13,820 --> 00:04:15,388
HOW DO YOU KEEP HUMANS ALIVE IN

79
00:04:15,455 --> 00:04:20,193
THOSE HOSTILE CONDITIONS?

80
00:04:20,259 --> 00:04:22,061
WE ARE GOING TO LEARN HOW TO USE

81
00:04:22,128 --> 00:04:24,597
THE ROW SORSES ON THE MOON IN

82
00:04:24,664 --> 00:04:27,400
ORDER TO BE ABLE TO BUILD THINGS

83
00:04:27,467 --> 00:04:29,836
IN THE FUTURE AS WE GO, NOT A

84
00:04:29,902 --> 00:04:31,137
QUARTER MILLION MILES AWAY.

85
00:04:31,204 --> 00:04:37,243
NOT A THREE-DAY JOURNEY.

86
00:04:37,310 --> 00:04:39,412
BUT MILLIONS AND MILLIONS AND

87
00:04:39,479 --> 00:04:41,681
MILLIONS OF MILES AWAY AND

88
00:04:41,748 --> 00:04:43,783

MONTHS AND MONTHS AND MONTHS IF

89

00:04:43,850 --> 00:04:45,251
NOT YEARS JOURNEY.

90

00:04:45,318 --> 00:04:46,185
WE ARE GOING TOGETHER.

91

00:04:46,252 --> 00:04:49,222
WE ARE GOING WITH THE COMMERCIAL

92

00:04:49,288 --> 00:04:50,023
PARTNERS.

93

00:04:50,089 --> 00:04:50,823
WE ARE GOING WITH OUR

94

00:04:50,890 --> 00:04:57,130
INTERNATIONAL PARTNERS.

95

00:04:57,196 --> 00:05:00,366
ON ARTEMIS 2, THE FIRST CANADIAN

96

00:05:00,433 --> 00:05:01,868
WILL FLY.

97

00:05:01,934 --> 00:05:03,503
WILT THE FIRST CANADIAN

98

00:05:03,569 --> 00:05:06,939
ASTRONAUT TO GO THROUGH MOON.

99

00:05:07,006 --> 00:05:11,010
THE FIRST EUROPEAN AND JAPANESE

100

00:05:11,077 --> 00:05:12,745
ASTRONAUTS WILL FLY AROUND THE

101
00:05:12,812 --> 00:05:14,380
MOON ON THE GATEWAY WHICH WITH

102
00:05:14,447 --> 00:05:17,583
IS OUR LUNAR OUTPOSTING.

103
00:05:17,650 --> 00:05:23,756
THE SPACE LAUNCH SYSTEM, THAT

104
00:05:23,823 --> 00:05:25,191
ROCKET, IS THE ONLY CAPABLE

105
00:05:25,258 --> 00:05:27,226
ROCKET OF SENDING HUMANS TO DEEP

106
00:05:27,293 --> 00:05:29,662
SPACE AND IT'S THE MOST POWERFUL

107
00:05:29,729 --> 00:05:30,763
IN THE WORLD.

108
00:05:30,830 --> 00:05:33,800
SO YOU ARE TO SEE THE EVOLUTION

109
00:05:33,866 --> 00:05:38,638
OF THIS ROCKET.

110
00:05:38,705 --> 00:05:40,773
IT IS AT ONE HEIGHT NOW AND BY

111
00:05:40,840 --> 00:05:41,974
ART THE MISS 4.

112
00:05:42,041 --> 00:05:44,410
IT IS GOING TO BE TALLER.

113
00:05:44,477 --> 00:05:46,379

IT IS GOING TO BE MORE POWERFUL.

114

00:05:46,446 --> 00:05:49,615

THEN ON TOP OF IT IS THE

115

00:05:49,682 --> 00:05:53,886

SPACECRAFT ORION.

116

00:05:53,953 --> 00:05:58,124

AND ORION WILL VENTURE FURTHER

117

00:05:58,191 --> 00:05:59,692

ANY SPACECRAFT BUILT FOR HUMANS

118

00:05:59,759 --> 00:06:01,728

THAT HAS EVER FLOWN.

119

00:06:01,794 --> 00:06:06,632

IT WILL BE ON MISSION OF OVER

120

00:06:06,699 --> 00:06:08,968

1 TRILLION MYLES TO THE MOON,

121

00:06:09,035 --> 00:06:11,070

AND BACK, TO ALL KINDS OF ORBITS

122

00:06:11,137 --> 00:06:12,505

AROUND THE MOON TESTING THIS

123

00:06:12,572 --> 00:06:15,508

SPACECRAFT.

124

00:06:15,575 --> 00:06:24,584

IT IS A MISSION OF 42 DAYS.

125

00:06:24,650 --> 00:06:27,053

IT IS FASTER AND HOTTER THAN ANY

126
00:06:27,120 --> 00:06:27,687
SPACECRAFT HAS BEFORE.

127
00:06:27,754 --> 00:06:31,124
IT IS COMING BACK AT 32 MOCK.

128
00:06:31,190 --> 00:06:34,694
IT IS GOING TO HIT THE EARTH'S

129
00:06:34,761 --> 00:06:36,963
ATMOSPHERE AT 32 TIMES THE

130
00:06:37,029 --> 00:06:37,830
SPEED OF SOUND.

131
00:06:37,897 --> 00:06:39,966
IT IS GOING TO DEEP IN THE

132
00:06:40,032 --> 00:06:41,434
ATMOSPHERE AND BLEED OFF SOME OF

133
00:06:41,501 --> 00:06:44,971
THAT SPEED BEFORE IT STARTS

134
00:06:45,037 --> 00:06:46,172
DESCENDING THROUGH THE

135
00:06:46,239 --> 00:06:49,742
ATMOSPHERE ON THE SPACE SHUTTLE.

136
00:06:49,809 --> 00:06:53,479
WE WERE AT 25 MOCK WHICH IS

137
00:06:53,546 --> 00:06:54,447
ABOUT 17500 MILES PER HOUR AN

138
00:06:54,514 --> 00:06:57,216

HOUR.

139

00:06:57,283 --> 00:07:00,086

THIS HEAT SHIELD OF ORION IS

140

00:07:00,153 --> 00:07:03,856

BUILD SO THAT IT WILL STAND THE

141

00:07:03,923 --> 00:07:06,392

HOTTER ENVIRONMENT AS IT IS

142

00:07:06,459 --> 00:07:14,100

COMING IN FIRST AT 32 MOCK.

143

00:07:14,167 --> 00:07:16,803

YOU COME BACK FROM MARS, IT

144

00:07:16,869 --> 00:07:18,204

MAYBE AT 36 MOCK, SO WE GOT A

145

00:07:18,271 --> 00:07:28,881

LOT OF TESTING TO DO.

146

00:07:28,948 --> 00:07:30,516

WE ARE TESTERRING THIS HEAT

147

00:07:30,583 --> 00:07:32,018

SHIELD.

148

00:07:32,084 --> 00:07:34,654

THE MOST ADVANCED HEAT SHIELD

149

00:07:34,720 --> 00:07:34,954

EVER.

150

00:07:35,021 --> 00:07:35,555

ONCE IT COME HAS TO THE

151
00:07:35,621 --> 00:07:37,423
ATMOSPHERE, THEN IT IS GOING TO

152
00:07:37,490 --> 00:07:38,591
SLOW DOWN TO BEFORE THE

153
00:07:38,658 --> 00:07:40,326
PARACHUTES ARE DEPLOYED ABOUT

154
00:07:40,393 --> 00:07:41,160
300 MILES PER HOUR.

155
00:07:41,227 --> 00:07:45,431
NOW, LAST WEEK, WE WERE DOWN AT

156
00:07:45,498 --> 00:07:46,866
KENNEDY.

157
00:07:46,933 --> 00:07:48,601
AND I WAS IN THE VEHICLE

158
00:07:48,668 --> 00:07:49,635
ASSEMBLY BUILDING WITH A BUNCH

159
00:07:49,702 --> 00:07:53,072
OF STUDENTS AND LETTING THEM

160
00:07:53,139 --> 00:07:53,773
LOOK UP ON A SURPRISE VISIT.

161
00:07:53,840 --> 00:07:56,909
IT WAS THE ONES THAT THE KFC

162
00:07:56,976 --> 00:07:59,846
CAMP AND YOU SHOULD HAVE SEEN

163
00:07:59,912 --> 00:08:00,313

THEM.

164

00:08:00,379 --> 00:08:03,549

THEY DIDN'T KNOW.

165

00:08:03,616 --> 00:08:26,439

WAS THE SURPRISE THO BOB ANDY

166

00:08:26,505 --> 00:08:27,707

FOR THESE KIDS.

167

00:08:27,773 --> 00:08:28,341

SHOULD HAVE SEEN THE OTHER

168

00:08:28,407 --> 00:08:29,008

AMAZEMENTS OF THE KIDS AND

169

00:08:29,075 --> 00:08:29,709

LOOKED AT THIS IN THE VEHICLE

170

00:08:29,775 --> 00:08:30,443

ASSEMBLY BUILDING LOOKING UP AT

171

00:08:30,509 --> 00:08:30,710

SLS.

172

00:08:30,776 --> 00:08:31,410

WAYS PROUDLY ON DISPLAY RIGHT

173

00:08:31,477 --> 00:08:32,111

THERE.

174

00:08:32,178 --> 00:08:32,812

SOON THAT BABIES ROLLING BACK

175

00:08:32,879 --> 00:08:33,312

OUT TO THE PAD.

176

00:08:33,379 --> 00:08:33,779

17 STORIES HIGH.

177

00:08:33,846 --> 00:08:37,149

SOLID ROCKET BOOSTERS.

178

00:08:37,216 --> 00:08:40,319

ENORMOUS CORP STAGE HOLDING THE

179

00:08:40,386 --> 00:08:42,054

LIQUID HYDROGEN AND OXYGEN

180

00:08:42,121 --> 00:08:46,092

TANKS, THEN, UNDERNEATH OH RYE

181

00:08:46,158 --> 00:09:03,910

WRIN, THE SPACE CRAFTS THE

182

00:09:11,984 --> 00:09:16,822

EUROPEAN SERVICE MODULE, AND THE

183

00:09:16,889 --> 00:09:17,423

POWERHOUSE OF THE ORION

184

00:09:17,490 --> 00:09:28,935

SPACECRAFT THAT WILL PROVIDE

185

00:09:29,001 --> 00:09:29,568

ORION WITH POWER AND LIFE

186

00:09:29,635 --> 00:09:45,918

SUPPORT FOR THE ASTRONAUTS FOR

187

00:09:45,985 --> 00:09:46,452

THE FUTURE FLIGHTS.

188

00:09:46,519 --> 00:09:47,253

AGE THAT COMES FROM OUR VENDS AT

189

00:09:47,320 --> 00:09:47,887

ESA EUROPEAN SPACE AGENCY.

190

00:09:47,954 --> 00:09:48,587

AND I AM TELLING YOU, A COUPLE

191

00:09:48,654 --> 00:09:49,355

OF WEEKSING WHERE SHALL WAYS IN

192

00:09:49,422 --> 00:09:49,789

IN EUROPE, THEY ARE GAGA.

193

00:09:52,725 --> 00:09:53,359

THEY ARE SO EXCITED ABOUT NASA

194

00:09:53,426 --> 00:09:54,126

AND WHAT IS HAPPENING, AND TO BE

195

00:09:54,193 --> 00:09:54,560

A PART OF IT.

196

00:09:54,627 --> 00:09:55,261

IT TELLS YOU SOMETHING ABOUT

197

00:09:55,328 --> 00:09:55,561

NASA.

198

00:09:55,628 --> 00:10:11,243

IT TELLS YOU ABOUT OUR

199

00:10:11,310 --> 00:10:11,911

INTERNATIONAL INTERNATIONAL

200

00:10:11,978 --> 00:10:29,762

OUTREACH SO THIS ROCK KETTLE IS

201
00:10:41,540 --> 00:10:42,008
AN INCREDIBLE FEAT.

202
00:10:42,074 --> 00:10:59,792
I WANT TO UNDERSCORE, THAT THIS

203
00:11:18,310 --> 00:11:18,744
IS A TEST FLIGHT.

204
00:11:18,811 --> 00:11:22,014
IT IS JUST THE BEGINNING SH AM

205
00:11:22,081 --> 00:11:22,748
WE HAVE LEARNED A LOT OVER THE

206
00:11:22,815 --> 00:11:23,049
YEARS.

207
00:11:23,115 --> 00:11:40,433
WE LEARNED A LOT THAT WE ARE

208
00:11:59,318 --> 00:12:03,456
GOING TO BE ABLE TO APPLY IN THE

209
00:12:03,522 --> 00:12:03,889
COMING YEARS.

210
00:12:03,956 --> 00:12:04,490
DEVELOPING A NEW ROCKET.

211
00:12:04,557 --> 00:12:15,835
THIS IS A NEW ROCKET.

212
00:12:15,901 --> 00:12:16,535
IT IS THE SOLID ROCKET BOOSTER

213
00:12:16,602 --> 00:12:17,103

INTERESTS THE SHUTTLE.

214

00:12:17,169 --> 00:12:17,670

THIS IS FIVE SEGMENTS.

215

00:12:17,736 --> 00:12:18,437

ITS THE CORE STAGE FOR THE SPACE

216

00:12:18,504 --> 00:12:19,138

SHUTTLE BUT SO MUCH DIFFERENT.

217

00:12:19,205 --> 00:12:36,489

IT LOOKS LIKE WE ARE LOOKING

218

00:12:41,727 --> 00:12:42,294

TOWARD THE SATURN 5 BUT IS

219

00:12:42,361 --> 00:12:53,839

TOTALLY DIFFERENT NEW, HIGHLY

220

00:12:53,906 --> 00:12:54,373

SOPHISTICATED, MORE

221

00:12:54,440 --> 00:13:11,524

SOPHISTICATED ROCKET AND

222

00:13:11,590 --> 00:13:11,924

SPACECRAFT.

223

00:13:11,991 --> 00:13:12,558

AND WE ARE GOING TO LEARN FROM

224

00:13:21,901 --> 00:13:22,301

THIS ARTEMIS 1.

225

00:13:22,368 --> 00:13:25,471

WE ARE LEARNING THROUGH THE

226

00:13:25,538 --> 00:13:26,205

CHALLENGES, THE ACCOMPLISHMENTS.

227

00:13:26,272 --> 00:13:26,939

ARTEMIS SHOWS THAT WE CAN DO BIG

228

00:13:27,006 --> 00:13:27,273

THINGS.

229

00:13:27,339 --> 00:13:27,873

THINGS THAT CAN BENEFIT

230

00:13:27,940 --> 00:13:28,240

HUMANITY.

231

00:13:28,307 --> 00:13:28,774

THINGS LIKE APOLLO.

232

00:13:28,841 --> 00:13:29,542

THINGS THAT INSPIRED THE WORLD.

233

00:13:29,608 --> 00:13:30,142

THIS IS NOW THE ARTEMIS

234

00:13:30,209 --> 00:13:30,543

GENERATION.

235

00:13:30,609 --> 00:13:31,210

WE WERE IN THE A APOLLO GEN

236

00:13:35,181 --> 00:13:31,544

RATION.

237

00:13:35,247 --> 00:13:35,881

IT IS A NEW TYPE OF ASTRONAUT.

238

00:13:35,948 --> 00:13:36,615

AND TO ALL OFS THAT YOU GAZE UP

239

00:13:36,682 --> 00:13:37,349

AT THE MOON, DREAMING OF THE DAY

240

00:13:37,416 --> 00:13:38,083

HUMAN KIND RETURNS TO THE LUNAR

241

00:13:38,150 --> 00:13:38,784

SURFACE, NOT KS, WE ARE HERE.

242

00:13:39,718 --> 00:13:39,185

WE ARE HERE.

243

00:13:39,785 --> 00:13:53,799

WE ARE GOING BACK.

244

00:13:53,866 --> 00:13:54,500

THAT JURN THINK, OUR JOURNEY,

245

00:13:54,567 --> 00:13:55,067

BEGINS WITH ARTEMIS 1.

246

00:13:55,134 --> 00:13:55,734

THIS TEAM IS GOING TELL YOU,

247

00:13:55,801 --> 00:13:56,468

TODAY, MORE ABOUT OUR GOALS FOR

248

00:13:56,535 --> 00:14:14,220

THE MISSION AND WHAT IS ONBOARD.

249

00:14:25,197 --> 00:14:25,831

THEY ARE GOING TO EXPLAIN HOW

250

00:14:25,898 --> 00:14:26,498

THESE MISSION OBJECTIVES ARE

251
00:14:26,565 --> 00:14:27,199
GOING TO INFORM THE FUTURE AND

252
00:14:27,266 --> 00:14:27,866
INFORM HOW THE MISSIONS ARE

253
00:14:27,933 --> 00:14:28,467
GOING TO BE AND BEYOND.

254
00:14:28,534 --> 00:14:29,201
AND REMEMBER, IT IS NOT THE SKY

255
00:14:29,268 --> 00:14:29,702
THAT IS THE LIMIT.

256
00:14:29,768 --> 00:14:30,402
WE ARE LEARNING FROM THE JAMES

257
00:14:30,469 --> 00:14:30,970
WEBB SPACE TELESCOPE.

258
00:14:31,036 --> 00:14:31,604
HOW BIG THIS UNIVERSE IS.

259
00:14:31,670 --> 00:14:32,271
ITS THE UNIVERSE IS THE LIMB

260
00:14:32,338 --> 00:14:32,571
MILT.

261
00:14:32,638 --> 00:14:33,138
SO LET'S GO ARTEMIS 1.

262
00:14:33,205 --> 00:14:33,472
THANKS.

263
00:14:33,539 --> 00:14:33,973

>> THANK YOU.

264

00:14:34,039 --> 00:14:34,273

SORRY.

265

00:14:34,340 --> 00:14:35,007

NEXT, MIKE WILL GIVE US OVERVIEW

266

00:14:35,074 --> 00:14:52,758

OF THE MISSION AND THE PRIMARY

267

00:15:17,783 --> 00:15:18,450

MISSION ON OBJECTIVES AND WE'LL

268

00:15:18,517 --> 00:15:19,184

TALK ABOUT SOME OF THE PAYLOADS

269

00:15:19,251 --> 00:15:19,852

LIEDED RIDING ALONG ON THIS

270

00:15:19,918 --> 00:15:20,552

MISSION THAT HAVE POTENTIAL TO

271

00:15:20,619 --> 00:15:21,253

CONTRIBUTE KNOWLEDGE TO FUTURE

272

00:15:21,320 --> 00:15:29,428

EXPLORATION MISSIONS.

273

00:15:29,495 --> 00:15:29,928

OVER TO YOU, MIKE.

274

00:15:29,995 --> 00:15:30,663

>> OH I KAY, GOOD MORNING.

275

00:15:30,729 --> 00:15:31,363

THANK FOR YOUR INTEREST IN OUR

276

00:15:31,430 --> 00:15:31,964

MISSION AND OUR PROGRAM.

277

00:15:32,031 --> 00:15:32,631

IF WE COULD ROLL THE VIDEO.

278

00:15:32,698 --> 00:15:33,332

WE'LL SET EXPECT TAGSES ABOUT

279

00:15:33,399 --> 00:15:34,033

WHAT SOME OF THE MAJOR MISSION

280

00:15:34,099 --> 00:15:34,767

HIGHLIGHTS ARE THAT YOU MAY SEE

281

00:15:34,833 --> 00:15:35,501

THROUGHOUT THE COURSE OF ARTEMIS

282

00:15:35,567 --> 00:15:35,734

1.

283

00:15:35,801 --> 00:15:36,468

ROLLOUT WILL OCCUR IN ABOUT TWO

284

00:15:36,535 --> 00:15:36,769

WEEKS.

285

00:15:36,835 --> 00:15:37,469

A WILL SIGNAL LAUNCH IS NEAR.

286

00:15:37,536 --> 00:15:38,170

THEN TIRE MOBILE LAUNCH TOWER,

287

00:15:38,237 --> 00:15:38,871

AS WELL AS THE ROCKET THAN THE

288

00:15:38,937 --> 00:15:39,571

SPACE CRAFT, WILL HEAD OUT THE

289

00:15:39,638 --> 00:15:40,205

LAUNCHPAD TOGETHER AND BE

290

00:15:40,272 --> 00:15:40,939

POSITIONED AT 39B OVER SA FLAME

291

00:15:41,006 --> 00:15:41,273

TRENCH.

292

00:15:41,340 --> 00:15:41,974

WE'LL LOAD IT WITH CRY O, THE

293

00:15:42,041 --> 00:15:42,675

FUEL AND OXIDIZER TO THE CORE

294

00:15:42,741 --> 00:15:43,409

STAGE AS WELL AS THE UPPER STAGE

295

00:15:43,475 --> 00:15:44,076

AND WHEN ALL SYSTEMS ARE GO,

296

00:15:44,143 --> 00:15:44,777

WE'LL GIVE THE GO FOR LAUNCH.

297

00:15:44,843 --> 00:15:45,377

ARTEMIS ONE WILL BEGUN.

298

00:15:45,444 --> 00:15:46,078

THE 32 STORY TALL ROCKET WILL

299

00:15:46,145 --> 00:15:46,745

CLIMB THE WAY UP THROUGH THE

300

00:15:46,812 --> 00:15:47,446

ATMOSPHERE IN TWO MINUTES ALL

301

00:15:47,513 --> 00:15:48,113

THE SOLID PROPELLANT IN THE

302

00:15:48,180 --> 00:15:48,847

BOOSTER WILL BE JETTISONED ADDS

303

00:15:48,914 --> 00:15:49,581

WELL AS THE LIQUID FOOL AND THE

304

00:15:49,648 --> 00:15:50,249

CORE STAGE WILL BE JETTED TY

305

00:15:50,316 --> 00:15:50,983

SEND THE UPPER STAGE AS WELL AS

306

00:15:51,050 --> 00:15:51,684

THE ORION SPACECRAFT WILL THEN

307

00:15:51,750 --> 00:15:52,318

PROCEED IN ONE LAP AROUND THE

308

00:15:52,384 --> 00:15:52,618

EARTH.

309

00:15:52,685 --> 00:15:53,352

ORION WILL DEPLOY THE SOLAR RAYS

310

00:15:53,419 --> 00:15:54,053

THEN GET OFF BATTERY POWER AND

311

00:15:54,119 --> 00:15:54,620

COME NOTE IT THE MOON.

312

00:15:54,687 --> 00:15:55,321

AT THAT POINT, THE ROCKET HAS

313

00:15:55,387 --> 00:15:55,754

DONE ITS JOB.

314

00:15:55,821 --> 00:15:56,455
NOW ORION IS ON THE WAY TO THE

315

00:15:56,522 --> 00:15:56,755
MOON.

316

00:15:56,822 --> 00:15:57,456
AT THE CLOSEST POINT, OH RYAN

317

00:15:57,523 --> 00:15:58,023
WILL BE 62-MILES FROM THE

318

00:16:05,431 --> 00:16:06,031
SURFACE OF THE MOON AND

319

00:16:06,098 --> 00:16:06,732
WILL BE WITH 38,000 MILES PAST

320

00:16:06,799 --> 00:16:07,433
THE FAR SIDE OF THE MOON WAYS

321

00:16:07,499 --> 00:16:08,100
QUARTER MILLION MILES AWAY.

322

00:16:08,167 --> 00:16:08,767
WHEN WE RETURN TO THE EARTH.

323

00:16:08,834 --> 00:16:09,501
THE EUROPEAN SERVICE MODULE WILL

324

00:16:09,568 --> 00:16:10,202
BE JETTISONED AND DONE ITS JOB

325

00:16:10,269 --> 00:16:10,903
AND OH RAYIAN WILL SET UP FOR

326
00:16:10,969 --> 00:16:11,603
THE PRIMARY OBJECTIVE WHICH IS

327
00:16:11,670 --> 00:16:12,104
EARTH'S RE-ENTRY.

328
00:16:12,171 --> 00:16:12,805
AFTER THE PEAK HEATING PERIOD

329
00:16:12,871 --> 00:16:13,505
THE PARACHUTES WILL DEPLY AND

330
00:16:13,572 --> 00:16:31,357
THE SPACECRAFT WILL SPLASH DOWN

331
00:16:43,402 --> 00:16:43,969
THE OCEAN OFF THE COAST OF

332
00:16:44,036 --> 00:16:44,636
CALIFORNIA WHERE A U.S. NAVY

333
00:16:44,703 --> 00:16:45,371
TEAM AND NASA TEAM WILL VEF THE

334
00:16:45,437 --> 00:16:45,904
AWAITING SPACECRAFT.

335
00:16:45,971 --> 00:16:46,638
WE'LL REROOF TO THE DATA OFF IT.

336
00:16:46,705 --> 00:16:47,339
THAT WILL INFORM THE READINESS

337
00:16:47,406 --> 00:16:48,040
AS WELL AS HELP UNDERSTAND OUR

338
00:16:48,107 --> 00:16:48,874

ABILITY TO FLIES A VERY NOTES ON

339

00:16:48,941 --> 00:16:49,608

THE VERY NEXT MISSION ON ARTEMIS

340

00:16:49,675 --> 00:16:50,342

2 SO THOSE ARE SOME SOME OF THE

341

00:16:50,409 --> 00:16:50,976

HIGHLIGHTS WE CAN EXPECT.

342

00:16:51,043 --> 00:16:51,677

WE'LL BRING EACH AND EVERYONE

343

00:16:51,744 --> 00:16:52,344

ALONG THROUGHOUT THE CORINGS OF

344

00:16:52,411 --> 00:16:53,078

THE MISSION AND SHARE IMAGE FRAY

345

00:16:53,145 --> 00:16:53,712

THE GROUND AND THE LAUNCH

346

00:16:53,779 --> 00:16:54,346

VEHICLE AND THE SPACECRAFT

347

00:16:54,413 --> 00:16:54,747

THROUGHOUT.

348

00:16:54,813 --> 00:16:55,447

OUR PRIMARY OBJECTIVES WE GOT

349

00:16:55,514 --> 00:16:55,781

FOR YOU.

350

00:16:55,848 --> 00:16:56,482

PRIORITY ONE IS TO DEMONSTRATE

351
00:16:56,548 --> 00:16:57,216
THE SPACECRAFT'S ABILITY TO REAT

352
00:16:57,282 --> 00:16:57,649
AT REREN TRY.

353
00:16:57,716 --> 00:16:58,384
WE HEAD TO THE ROCK DOTE DOES IT

354
00:16:58,450 --> 00:16:58,984
JOB TO SENT THE INITIAL

355
00:16:59,051 --> 00:16:59,651
CONDITIONS ALL THAT CHEMICAL

356
00:16:59,718 --> 00:17:00,285
ENERGY STORED IN THE SOLID

357
00:17:00,352 --> 00:17:00,986
BOOSTER THEN LIQUID FUEL, THAT

358
00:17:01,053 --> 00:17:16,935
STORED IN THE CORE STAGE THE

359
00:17:17,002 --> 00:17:17,536
UPPER STAGE NEEDS TO BE

360
00:17:17,603 --> 00:17:18,270
DELIVERED TO THE SPACECRAFT AND

361
00:17:18,337 --> 00:17:18,971
PUT IN THE FORM OF KINETIC AND

362
00:17:19,037 --> 00:17:19,671
POTENTIAL END NER ARE GY THEN

363
00:17:19,738 --> 00:17:20,706

THE HEAT SHIELD WILL TAKEBACK O.

364

00:17:20,773 --> 00:17:21,373

THAT PRICE OR TY NUMBER ONE.

365

00:17:21,440 --> 00:17:22,007

PRIORITY NUMBER IS TWO TO

366

00:17:22,074 --> 00:17:22,708

DEMONSTRATE THE VEHICLE IN THE

367

00:17:22,775 --> 00:17:23,409

FLIGHT ENVIRONMENTS THAT FROM

368

00:17:23,475 --> 00:17:24,076

THE LAUNCH FOOD THE MOON AND

369

00:17:24,143 --> 00:17:24,676

BACK AND BACK TO EARTH.

370

00:17:24,743 --> 00:17:25,210

IN ORDER TO DO THAT.

371

00:17:25,277 --> 00:17:25,944

WE NEED DEMONSTRATE THE ROCKET'S

372

00:17:26,011 --> 00:17:26,645

ABILITY TO LIFT OFF SAFE THINK

373

00:17:26,712 --> 00:17:27,212

THE LAUNCHPAD AND THAT

374

00:17:27,279 --> 00:17:27,946

8.8 MILLION POUNDS OF THRUST IS

375

00:17:28,013 --> 00:17:28,547

GOING TO REFLECT OFF THE

376

00:17:28,614 --> 00:17:29,281

LAUNCHPAD AND BOUNCE BACK UP IN

377

00:17:29,348 --> 00:17:29,715

TERM OF SHOCK.

378

00:17:29,782 --> 00:17:30,449

WE HAVE WATER SOUND SUPPRESSION

379

00:17:30,516 --> 00:17:31,183

THAT IS THERE TO DAMP THAT SHOCK

380

00:17:31,250 --> 00:17:31,917

AS THE ROCKET LIFTS OFF AND HAS

381

00:17:41,226 --> 00:17:41,894

THESE ARMS THAT ARE ROUGHLY THE

382

00:17:41,960 --> 00:17:52,504

LUNK OF A TRACTOR TRAWLER AND

383

00:17:52,571 --> 00:17:53,238

WEIGHED THOUSANDS OF POUNDS THAT

384

00:17:53,305 --> 00:17:56,241

NEEDED TO RETRACT IN THOSE

385

00:17:56,308 --> 00:17:56,942

INITIAL MOMENTS AT LIFTOFF AT

386

00:17:57,009 --> 00:17:57,643

FIRST MOTION AND DOLLARS THE

387

00:17:57,709 --> 00:17:58,343

PATH OF THE ROCKET AS IT ASELL

388

00:17:58,410 --> 00:18:02,314

RATES UP OFF THE LAUNCHPAD AS WE

389

00:18:02,381 --> 00:18:02,648

HEAD UP.

390

00:18:02,714 --> 00:18:03,348

WE'LL GO THROUGH THE PERIOD OF

391

00:18:03,415 --> 00:18:04,049

MAXIMUM AERODYNAMIC LOADING OR

392

00:18:04,116 --> 00:18:04,716

MAXQ AND NEED TO SURVIVE THE

393

00:18:04,783 --> 00:18:05,417

ASSENT VIRN AM THEN, ALL THE

394

00:18:05,484 --> 00:18:06,151

SEPARATION EVENTS WITH JETTISON

395

00:18:06,218 --> 00:18:06,518

BOOSTERS.

396

00:18:06,585 --> 00:18:07,219

WE WILL JETTISON THE FARINGS

397

00:18:07,286 --> 00:18:07,920

IN AERODYNAMIC SHELL THAT COVER

398

00:18:07,986 --> 00:18:08,587

THE SOLAR ARRAYS DURING THE

399

00:18:08,654 --> 00:18:09,321

EARTH'S ACCENT AND JETTY SEASON

400

00:18:09,388 --> 00:18:10,022

THE LAUNCH ABORT SYSTEM, THEN

401
00:18:10,088 --> 00:18:10,622
JETTISON THE CORE STAGE.

402
00:18:10,689 --> 00:18:11,356
ALL OF THESE THINGS NEED TO WORK

403
00:18:11,423 --> 00:18:12,024
PERFECTLY IN SEQUENCE TO PUT

404
00:18:12,090 --> 00:18:12,724
ORION ON THE WAY TO THE MOON.

405
00:18:12,791 --> 00:18:13,459
WE'LL DEMONSTRATE THE PROPULSION

406
00:18:13,525 --> 00:18:14,092
TESTIMONIES TO PERFORM THE

407
00:18:14,159 --> 00:18:14,793
INJECTION MANEUVER AS WELL AS

408
00:18:14,860 --> 00:18:15,494
THE ABILITY OF ORION TO ENTER

409
00:18:15,561 --> 00:18:16,228
THE LUNAR ORBIT THEN RETURN FROM

410
00:18:16,295 --> 00:18:16,795
LUNAR ORBIT AND WE'LL

411
00:18:16,862 --> 00:18:17,529
COMMUNICATE WITH ASSETS THAT ARE

412
00:18:17,596 --> 00:18:18,230
BEEPYON WHAT WE USE FOR LOWER

413
00:18:18,297 --> 00:18:18,931

EARTH OR BUTT AND TERRESTRIAL

414

00:18:18,997 --> 00:18:19,231
USERS.

415

00:18:19,298 --> 00:18:19,865
LOWER EARTH ORBIT AND TER

416

00:18:19,932 --> 00:18:20,532
RETHIAL USE THE TRACKING AND

417

00:18:20,599 --> 00:18:21,166
DATA RELAY SATELLITES AND

418

00:18:21,233 --> 00:18:21,767
TYPICALLY USE THE GLOBAL

419

00:18:21,834 --> 00:18:22,468
POSITIONING NAVIGATION SYSTEM

420

00:18:22,534 --> 00:18:23,168
THAT IS HALFWAY TO GEO OR ITH.

421

00:18:23,235 --> 00:18:23,869
WE'LL COMMUNICATE AND NAVIGATE

422

00:18:23,936 --> 00:18:24,570
USING THE DEEP SPACE NETWORK,

423

00:18:24,636 --> 00:18:25,204
RADIO METRIC TRACKING AND

424

00:18:25,270 --> 00:18:25,838
OPTICAL AND A HALF GAUGES.

425

00:18:25,904 --> 00:18:26,572
WE ARE GOING TO FLY OUT THROUGH

426
00:18:26,638 --> 00:18:27,306
THE EARTH'S RADIATION BELTS THEN

427
00:18:27,372 --> 00:18:27,973
NO LONGER BE AFFORDED TO THE

428
00:18:28,040 --> 00:18:28,607
ABILITY TO HAVE THE EARTH

429
00:18:28,674 --> 00:18:29,341
MAGGOTTIC FIELD SHIELD TRUSS THE

430
00:18:29,408 --> 00:18:30,075
DEEP SPACE ENVIRONMENT TO FLY TO

431
00:18:30,142 --> 00:18:30,776
THE DEEP SPACE HIGH RADIATION

432
00:18:30,843 --> 00:18:31,510
ENVIRONMENT THEN EXPERIENCE WHAT

433
00:18:31,577 --> 00:18:32,177
IT IS LIKE TO FOR OURS A VO

434
00:18:32,244 --> 00:18:32,811
NOTES TO FLY ON SUBSEQUENT

435
00:18:46,358 --> 00:18:47,025
MISSIONS UNDER THOSE CONDITIONS

436
00:18:47,092 --> 00:18:50,829
THAT IS PRIORITY 2 AND

437
00:18:50,896 --> 00:18:51,530
DEMONSTRATE THE SPACECRAFT IN

438
00:18:51,597 --> 00:18:54,800

THE LAUNCH VEHICLE'S ABILITY IN

439

00:18:54,867 --> 00:18:55,400

THE FLIGHT ENVIRONMENT.

440

00:18:55,467 --> 00:18:56,134

PRIORITY 3 IS TO SIMPLY RETRIEVE

441

00:18:56,201 --> 00:18:56,602

THE SPACECRAFT.

442

00:18:56,668 --> 00:18:57,336

WE GET THE HYPERCISION AVIONICS

443

00:18:57,402 --> 00:18:59,838

ONBOARD FOR PROGRAMMATIC COST

444

00:18:59,905 --> 00:19:00,539

SAVINGS THEN REFLIGHT ON LATER

445

00:19:00,606 --> 00:19:01,240

FLIGHT THEN GET THE SPACECRAFT

446

00:19:01,306 --> 00:19:02,274

STRUCTURE BACK FOR ENVIRONMENT

447

00:19:02,341 --> 00:19:02,975

TESTING ON LATER FLIGHTS THEN

448

00:19:03,041 --> 00:19:16,288

THE DATA THAT IS RECORDED

449

00:19:16,355 --> 00:19:16,622

ONBOARD.

450

00:19:16,688 --> 00:19:17,356

WE VERY A BLACKOUT PERIOD DURING

451
00:19:17,422 --> 00:19:17,789
PEAK HEATING.

452
00:19:17,856 --> 00:19:18,423
A PLASMA FIELD IS GOING TO

453
00:19:18,490 --> 00:19:19,157
ENVELOPE THE SPACECRAFT DURING

454
00:19:19,224 --> 00:19:19,892
REENTRY AND WE'LL NOT BE ABLE TO

455
00:19:19,958 --> 00:19:37,309
COMMUNICATE WITH.

456
00:19:54,393 --> 00:19:54,927
SOL THE DATA, THAT WOULD

457
00:19:54,993 --> 00:19:57,996
NORMALLY COME TOLL EARTH, IT IS

458
00:19:58,063 --> 00:19:58,664
NOT GOING TO BE ABLE TO BE

459
00:19:58,730 --> 00:20:16,248
RECEIVED ON THE GROUND DURING

460
00:20:35,033 --> 00:20:35,367
THAT PERIOD.

461
00:20:35,434 --> 00:20:36,134
SO WE WILL GET THIS DATA BACK TO

462
00:20:36,201 --> 00:20:36,768
HELP US UNDERSTANDING OUR

463
00:20:36,835 --> 00:20:37,536

ENGINEERING AND UNCERTAINTIES AS

464

00:20:37,603 --> 00:20:38,136
WELL AS WHAT THE FLIGHT

465

00:20:38,203 --> 00:20:47,212
ENVIRONMENT WAS LIKE FROM LAUNCH

466

00:20:47,279 --> 00:20:47,646
TO SPLASHDOWN.

467

00:20:47,713 --> 00:20:48,180
THAT IS PRIORITY 3.

468

00:20:48,246 --> 00:20:48,680
THEN, PRIORITY 4.

469

00:20:48,747 --> 00:20:59,257
IT IS TO PERFORM SOME PAYLOAD

470

00:20:59,324 --> 00:20:59,992
OBJECTIVES THEN BOBBY WILL TALK

471

00:21:00,058 --> 00:21:17,409
TO BULL THE PAYLOAD OBJECTIVES

472

00:21:17,476 --> 00:21:18,110
TO PERFORM OUTREACH AND SHARE

473

00:21:18,176 --> 00:21:18,844
REMARKABLE IMAGES WITH EACH AND

474

00:21:18,910 --> 00:21:19,511
EVERYONE WATCH YOU AND IMAGE

475

00:21:19,578 --> 00:21:20,045
THANS INCLUDE OR RYAN TALKING

476
00:21:24,182 --> 00:21:24,883
SELFIES DONE THE SOLAR RAY WINGS

477
00:21:24,950 --> 00:21:25,450
WITHFUL ITSELF AND THE

478
00:21:25,517 --> 00:21:26,151
FOREGROUND AND THE MOON IN THE

479
00:21:26,218 --> 00:21:26,785
BACKGROUND AND THE EARTH A

480
00:21:26,852 --> 00:21:27,486
QUARTER MILLION MILES A WAY SO

481
00:21:27,552 --> 00:21:28,220
WE WITH INTEND TO BRING EACH OF

482
00:21:28,286 --> 00:21:28,887
YOU ALONG AS WE CONDUCT THE

483
00:21:28,954 --> 00:21:29,588
ARTEMIS MISSION AND LOOK VERY

484
00:21:29,655 --> 00:21:30,322
MUCH, WE VERY MUCH LOOK FORWARD

485
00:21:30,389 --> 00:21:31,056
TO BRING EACH AND EVERYONE WATCH

486
00:21:31,123 --> 00:21:31,690
YOU THIS MISSION WITH US.

487
00:21:31,757 --> 00:21:32,357
WITH THAT IL TURN IT OVER TO

488
00:21:32,424 --> 00:21:32,624

YOU.

489

00:21:32,691 --> 00:21:33,158

>> THANKS, MIKE.

490

00:21:33,225 --> 00:21:33,959

>> SO AS I SIT HERE, TODAY, I AM

491

00:21:34,026 --> 00:21:34,660

THINKING OF LIEUTENANT GREW UP

492

00:21:34,726 --> 00:21:35,360

WATCHING STAR TREK AND PASSED

493

00:21:35,427 --> 00:21:36,094

AWAY THIS WEEKEND AS MANY OF YOU

494

00:21:36,161 --> 00:21:36,395

KNOW.

495

00:21:36,461 --> 00:21:37,129

SHE WAS GREAT SUPPORTER OF NASA.

496

00:21:37,195 --> 00:21:37,863

OTHER REASONS FOLKS LIKE M REAT

497

00:21:37,929 --> 00:21:38,263

AS? TODAY.

498

00:21:38,330 --> 00:21:38,997

WE HONOR HER WITH PROGRAMS LIKE

499

00:21:39,064 --> 00:21:39,731

ARTEMIS, THAT WILL FULL FULL THE

500

00:21:39,798 --> 00:21:40,432

DREAM OF PEACEFUL NINER STARS

501
00:21:40,499 --> 00:21:40,966
FOR ALL OF HUMANITY.

502
00:21:41,033 --> 00:21:41,667
AS MIKE SAID, I AM EXCITED TO

503
00:21:41,733 --> 00:21:42,367
TALK ABOUT THE SCIENCE PAYLOAD

504
00:21:42,434 --> 00:21:43,101
THAT WILL GO ON THIS LAUNCH THAT

505
00:21:43,168 --> 00:21:43,735
IS LESS THAN A MONTH AWAY.

506
00:21:43,802 --> 00:21:44,436
AS AD MIN STRUTTER NELSON SAID

507
00:21:44,503 --> 00:21:44,836
WE ARE GOING.

508
00:22:01,019 --> 00:22:01,687
IN ADDITION, THAT IS A NUMBER OF

509
00:22:01,753 --> 00:22:02,220
SECONDARY PAYLOADS

510
00:22:02,287 --> 00:22:02,921
INVESTIGATIONS AND INSTRUMENTS

511
00:22:02,988 --> 00:22:03,655
RIDING ALONG ON THE SLS AS WELL

512
00:22:03,722 --> 00:22:04,322
AS INSIDE THE ORION CAPSULE

513
00:22:04,389 --> 00:22:05,023

OBJECTIVE FOR US AS MIKE SAID.

514

00:22:05,090 --> 00:22:05,590

THESE PAYLOADS REFLECT

515

00:22:05,657 --> 00:22:06,258

PARTNERSHIPS FROM ACROSS THE

516

00:22:06,324 --> 00:22:06,758

AGENCY WITH U.S. UNIVERSITY AND

517

00:22:12,531 --> 00:22:13,165

INTERNATIONAL PARTNERS IN FACT

518

00:22:13,231 --> 00:22:13,598

FIVE OF THEM.

519

00:22:13,665 --> 00:22:14,332

THEN ASH MD ADMINISTRATOR NELSON

520

00:22:14,399 --> 00:22:15,033

TALKED ABOUT THE IMPORTANCE OF

521

00:22:15,100 --> 00:22:15,767

INTERNATIONAL PARTNERSHIPS THEN

522

00:22:15,834 --> 00:22:16,435

THE DEP DEPUTY ADMINISTRATOR

523

00:22:16,501 --> 00:22:17,135

TELLS FUSS WANT TO GO FAST, GO

524

00:22:17,202 --> 00:22:17,436

ALONE.

525

00:22:17,502 --> 00:22:18,070

IF YOU WANT TO GO FAR, GO

526
00:22:18,136 --> 00:22:18,437
TOGETHER.

527
00:22:18,503 --> 00:22:19,071
AND THESE EXPERIMENTS ARE

528
00:22:19,137 --> 00:22:19,671
PERFECT ILLUSTRATION HOW

529
00:22:19,738 --> 00:22:20,305
COLLABORATION WILL TAKE US

530
00:22:20,372 --> 00:22:21,006
FURTHER WHEN WE WORK TOGETHER.

531
00:22:21,073 --> 00:22:21,640
TO BUILD THE KNOWLEDGE THE

532
00:22:21,707 --> 00:22:22,374
SHARED GOAL SO TON THE PAYLOAD.

533
00:22:22,441 --> 00:22:23,041
EACH CUBESATS THE SIZE OF A

534
00:22:23,108 --> 00:22:30,515
SMALL BRIEFCASE OR SHOEBOX,

535
00:22:30,582 --> 00:22:31,083
EVEN, THEN, WAGS ABOUT

536
00:22:31,149 --> 00:22:31,450
25 POUNDS.

537
00:22:31,516 --> 00:22:32,117
THESE LIGHTWEIGHT PLATFORMS

538
00:22:32,184 --> 00:22:32,851

ENABLE US TO CONDUCT RESEARCH AT

539

00:22:32,918 --> 00:22:33,552

LOWER COSTS BUT HIGHER RISKS.

540

00:22:33,618 --> 00:22:34,252

OF COURSE, THAT IS THE POINT,

541

00:22:34,319 --> 00:22:34,886

WHEN IT COMES TO CUBE SATS

542

00:22:34,953 --> 00:22:35,454

FAILURE IS AN OPTION.

543

00:22:35,520 --> 00:22:36,154

SEVERAL OF THE CUBE SATS CHOSE

544

00:22:36,221 --> 00:22:36,888

TON FLY ON ARTEMIS ONE FOCUS ON

545

00:22:36,955 --> 00:22:37,522

LUNAR SCIENCE AND MAY HELP

546

00:22:37,589 --> 00:22:38,190

INFORM RESEARCH STRATEGY AND

547

00:22:38,256 --> 00:22:38,757

PRIORITIZE TECHNOLOGY

548

00:22:38,824 --> 00:22:39,491

DEVELOPMENT OF HUMAN AND ROBOTIC

549

00:22:39,558 --> 00:22:39,891

EXPLORATION.

550

00:22:39,958 --> 00:22:40,559

THERE ARE OTHER PAYLOADS AS

551
00:22:40,625 --> 00:22:41,259
WELL, THEN, CUBE SATS WILL BE

552
00:22:41,326 --> 00:22:41,860
WITH TESTING INNOVATIVE

553
00:22:41,927 --> 00:22:42,461
PROPULSION TECHNOLOGIES,

554
00:22:42,527 --> 00:22:43,128
STUDYING SPACE WEATHER, THEN

555
00:22:43,195 --> 00:22:43,862
ANALYZE THE EFFECTIVE RADIATION

556
00:22:43,929 --> 00:22:44,563
ON LIVING ORGANISMS, ONE OF MY

557
00:22:44,629 --> 00:22:45,263
FAVORITES, AND PROVIDING HIGH

558
00:22:45,330 --> 00:22:45,997
RESOLUTION IMAGE RIFF THE EARTH

559
00:22:46,064 --> 00:22:46,431
AND THE MOON.

560
00:22:46,498 --> 00:22:47,165
ART THE MISS ONE PROVIDES A RARE

561
00:22:47,232 --> 00:22:47,833
OPPORTUNITY FOR THESE SMALL

562
00:22:47,899 --> 00:22:48,567
EXPERIMENTS TO REACH DEEP SPACE

563
00:22:48,633 --> 00:22:49,301

DEST NATION AND AS YOU LO, MOST

564

00:22:49,367 --> 00:22:50,001

CUBE SATS TEND TO BE LOWERRER

565

00:22:50,068 --> 00:22:50,402

EARTH ORBIT.

566

00:22:50,469 --> 00:22:51,103

BUT CUBESATS ARE THE ONLY ART

567

00:22:51,169 --> 00:22:51,770

THE MISS ONE IS CAR RUG.

568

00:22:59,411 --> 00:23:00,078

WE HAVE OTHERS INSIDE OF THE OR

569

00:23:00,145 --> 00:23:06,952

ORION CAPSULE THAT WILL PREPARE

570

00:23:07,018 --> 00:23:07,619

US FOR PERMANENT FOOTHOLD IN

571

00:23:07,686 --> 00:23:07,919

SPACE.

572

00:23:07,986 --> 00:23:08,620

INSIDE OR RYAN, ALTHOUGH WE DO

573

00:23:08,687 --> 00:23:24,002

NOT HAVES A RENOW THE ON THIS

574

00:23:24,069 --> 00:23:24,336

FLIGHT.

575

00:23:24,402 --> 00:23:25,036

WE WILL HAVE A FEW PURPOSEFUL

576
00:23:25,103 --> 00:23:25,737
PASSENGERS, WHO WILL HELP US

577
00:23:25,804 --> 00:23:26,438
UNDERSTAND THE EFFECT OF SPACE

578
00:23:26,505 --> 00:23:26,938
ON THE HUMAN BODY.

579
00:23:27,005 --> 00:23:27,606
A MANY QUINN BY THE NAME OF

580
00:23:27,672 --> 00:23:28,340
COMMANDER CAMPBELL, THE NAME WAS

581
00:23:28,406 --> 00:23:28,807
DETERMINED TO A SURVEY WILL

582
00:23:29,908 --> 00:23:30,542
OCCUPY THE COME MANER'S SEAT.

583
00:23:30,609 --> 00:23:31,276
AND THE IDEA IS TO PROVIDE DATA

584
00:23:31,343 --> 00:23:31,943
TON THE FORCES AND THE LOADS

585
00:23:32,010 --> 00:23:32,644
CREWMEMBERS MAKE EXPERIENCE IN

586
00:23:32,711 --> 00:23:32,978
FLIGHT.

587
00:23:33,044 --> 00:23:33,712
IT HARDENS AND TELL YOU THE NAME

588
00:23:33,779 --> 00:23:51,396

IS A DEDICATION TO ART

589

00:26:09,067 --> 00:26:12,637

SOME ITEMS ARE IN WORKS.

590

00:26:12,704 --> 00:26:14,773

WE WILL KEEP THE CREW MODULE

591

00:26:14,839 --> 00:26:15,140

OPEN.

592

00:26:15,206 --> 00:26:17,442

THE PLANNED CLOSURE OF THE HATCH

593

00:26:17,509 --> 00:26:23,682

IS IN TEN DAYS FROM NOW.

594

00:26:23,748 --> 00:26:25,417

THE UPPER STAGE IS COMPLETE.

595

00:26:25,483 --> 00:26:26,551

OUR WORK HAS FINISHED.

596

00:26:26,618 --> 00:26:28,219

YOU AL THE TESTING AND THE

597

00:26:28,286 --> 00:26:30,255

LAUNCH VEHICLE STAGE ADAPTER

598

00:26:30,322 --> 00:26:33,525

CLOSED OUT THE DOOR IS ON THE

599

00:26:33,591 --> 00:26:35,293

CONFIDENCE CHECKS ARE COMPLETE

600

00:26:35,360 --> 00:26:37,595

AS IS THE CORE STAGE FORWARD

601
00:26:37,662 --> 00:26:39,264
SKIRT AREA AND THE ENGINE

602
00:26:39,331 --> 00:26:42,200
SECTION SO A GOOD PART OF THE

603
00:26:42,267 --> 00:26:44,035
CORE STAGE IS ALL COMPLETE AND

604
00:26:44,102 --> 00:26:45,637
CLOSE OUT READY TO TROLL THE PAD

605
00:26:45,704 --> 00:26:46,404
FOR LAUNCH.

606
00:26:46,471 --> 00:26:48,373
ONE OF THE REMAINING AREAS THAT

607
00:26:48,440 --> 00:26:51,376
IS OPEN IS THE CORE STAGE UNDER

608
00:26:51,443 --> 00:26:52,610
TANK THAT IS BECAUSE ONE WITH OF

609
00:26:52,677 --> 00:26:53,945
THE SIGNIFICANT TEST ACTIVITY

610
00:26:54,012 --> 00:26:55,647
THAT IS UPCOMING THE FLIGHT

611
00:26:55,714 --> 00:26:56,948
SAFETY SYSTEM, OR THE FLIGHT

612
00:26:57,015 --> 00:26:58,850
TERMINATION SYSTEM TESTS IS

613
00:26:58,917 --> 00:27:02,687

SCHEDULED TO BEGIN NEXT WEEK.

614

00:27:02,754 --> 00:27:05,423

WE DO NEED ACCESS TO THE CORE

615

00:27:05,490 --> 00:27:06,858

STAGE INNER TANK AREA FOR THE

616

00:27:06,925 --> 00:27:14,666

TESTING.

617

00:27:14,733 --> 00:27:16,167

HE OTHER THAN, THE BOOSTER WORK

618

00:27:16,234 --> 00:27:18,436

IS PRETTY MUCH COMPLETE.

619

00:27:18,503 --> 00:27:20,572

WE HAVE BEEN WORKING WITH SOME

620

00:27:20,638 --> 00:27:22,941

OF THE THERMAL CURTAIN CLOSEOUTS

621

00:27:23,008 --> 00:27:24,509

SO THE LEFT HAND BOOSTER IS

622

00:27:24,576 --> 00:27:25,877

COMPLETE AND A LITTLE BIT OF

623

00:27:25,944 --> 00:27:27,779

WORK REMAINING ON THE RIGHT BUT

624

00:27:27,846 --> 00:27:30,015

GAIN, ALL THE WORK ON SCHEDULE

625

00:27:30,081 --> 00:27:31,282

TO TO SUPPORT THE PLANNED

626
00:27:31,349 --> 00:27:32,684
ROLLOUT DAYth DATES AS WE

627
00:27:32,751 --> 00:27:34,686
FINISH UP THE OPS WE HAVE START

628
00:27:34,753 --> 00:27:36,454
THE PLATFORM LEAD TRACK SO OUT

629
00:27:36,521 --> 00:27:38,890
OF THE TEN PLATFORMS VENZ THE

630
00:27:38,957 --> 00:27:40,859
BAB, THREE ARE ALL RIGHT IN THE

631
00:27:40,925 --> 00:27:42,260
RETRACK POSITION AND AS WE

632
00:27:42,327 --> 00:27:43,795
CONTINUE TO FINISH UP THE WORK,

633
00:27:43,862 --> 00:27:45,530
WE'LL PULL REMANNING PLATFORMS

634
00:27:45,597 --> 00:27:48,700
BACK.

635
00:27:48,767 --> 00:27:51,069
WE HAVE SOFTWARE UPDATES AFTER

636
00:27:51,136 --> 00:27:51,770
THE CAMPAIGN.

637
00:27:51,836 --> 00:27:53,304
THOSE HAVE BEEN COMPLETED THEN

638
00:27:53,371 --> 00:27:56,808

ROLLED INTO WHAT WE CALL RTCID

639

00:27:56,875 --> 00:27:59,511

WHICH THE SOFTWARE WE'LL USE FOR

640

00:27:59,577 --> 00:28:00,612

SIMULATION THAT WE HAVE PLANNED

641

00:28:00,678 --> 00:28:02,680

FOR TOMORROW AND WE'LL USE FOR

642

00:28:02,747 --> 00:28:04,783

LAUNCH THAT WAS LOADED INTO THE

643

00:28:04,849 --> 00:28:06,284

CONTROL ROOM LAST NIGHT.

644

00:28:06,351 --> 00:28:10,855

SO THAT IS NOW COMPLETE AS WELL.

645

00:28:10,922 --> 00:28:13,058

WE DO HAVE THE FINAL LAUNCH TEAM

646

00:28:13,124 --> 00:28:14,559

TRAINING EVENT TOMORROW.

647

00:28:14,626 --> 00:28:15,960

YOU IS A FULL SIMULATION FROM

648

00:28:16,027 --> 00:28:17,395

LOAD ALL THE WAY THROUGH

649

00:28:17,462 --> 00:28:18,630

TERMINAL COUNT AND CERTAINLY

650

00:28:18,696 --> 00:28:21,533

LOOKING FORWARD TO GETTING THAT

651
00:28:21,599 --> 00:28:24,302
BEHIND US AND GETTING THAT FINAL

652
00:28:24,369 --> 00:28:25,437
CHANCE TO PRACTICE LAUNCH

653
00:28:25,503 --> 00:28:26,504
COUNTDOWN BEFORE OUR BIG DAY I

654
00:28:26,571 --> 00:28:34,546
HAVE A ARRIVES.

655
00:28:34,612 --> 00:28:36,614
WE HAVE 11-DAY PAD CAMPAIGN.

656
00:28:36,681 --> 00:28:37,982
VERY SEM LAR TO WHAT WE HAVE

657
00:28:38,049 --> 00:28:40,385
DONE IN THE PAST, WE'LL ROLL

658
00:28:40,452 --> 00:28:43,822
OUT, GET THE VEHICLE DOWN, THEN

659
00:28:43,888 --> 00:28:45,423
VALIDATE THE SERVICES, THE

660
00:28:45,490 --> 00:28:47,559
COMMAND AND CONTROL DATA TELLEM

661
00:28:47,625 --> 00:28:50,762
THINK AND ANY OF THE COMMODITY

662
00:28:50,829 --> 00:28:53,131
CONNECTS AND THEN WE'LL GET INTO

663
00:28:53,198 --> 00:28:56,000

OUR WORK OVER IN ORION AND

664

00:28:56,067 --> 00:28:58,770

EXTEND THE CREW AXIS ARM OPEN UP

665

00:28:58,837 --> 00:29:00,905

THE HATCH AND WE DO HAVE SOME

666

00:29:00,972 --> 00:29:02,574

TESTING SOME PROGRAMS AND

667

00:29:02,640 --> 00:29:04,042

SPECIFIC ENGINEERING TESTS THAT

668

00:29:04,109 --> 00:29:05,043

WE'LL BE DOING AND THESE ARE

669

00:29:05,110 --> 00:29:07,145

SIMILAR TO WHAT WE DIDN'T OUR

670

00:29:07,212 --> 00:29:09,347

FIRST CAMPAIGN FOR IT.

671

00:29:09,414 --> 00:29:10,715

WE DO HAVE A FEW SAY DIGSES

672

00:29:10,782 --> 00:29:11,850

THERE AND WE'LL TAKE CARE OF

673

00:29:11,916 --> 00:29:14,052

THAT AS WELL AS SERVICING THE

674

00:29:14,119 --> 00:29:15,587

BOOSTERS THEN OUR LAUNCH

675

00:29:15,653 --> 00:29:17,989

COUNTDOWN PREPS THEN INTO LAUNCH

676
00:29:18,056 --> 00:29:19,190
COUNTDOWN ITSELF.

677
00:29:19,257 --> 00:29:22,694
SO FOR THAT, AUGUST 29 LAUNCH

678
00:29:22,760 --> 00:29:24,129
ATTEMPT, WE WOULD LOOK HAVE

679
00:29:24,195 --> 00:29:27,765
CALLED THE STAGS AT 0953 ON

680
00:29:27,832 --> 00:29:30,168
SATURDAY THE 27th THEN THE

681
00:29:30,235 --> 00:29:31,769
OPERATIONS WOULD BEGIN LISTEN

682
00:29:31,836 --> 00:29:32,537
THE MORNING ON MONDAY.

683
00:29:32,604 --> 00:29:33,505
WE HAVE ADDED A LITTLE BIT OF

684
00:29:33,571 --> 00:29:36,207
TIME TO OUR COUNTDOWN.

685
00:29:36,274 --> 00:29:40,478
WE ADDED AN HOUR OF TIME TO THE

686
00:29:40,545 --> 00:29:41,579
HOLD BEFORE THANKING.

687
00:29:41,646 --> 00:29:42,313
THAT WAS TO TAKE CARE OF COUPLE

688
00:29:42,380 --> 00:29:42,680

OF THINGS.

689

00:29:42,747 --> 00:29:43,882

THE FIRST IS PART OF THE WET

690

00:29:43,948 --> 00:29:45,083

DRESS LOADING OPERATION, WE

691

00:29:45,150 --> 00:29:46,317

FOUND WE NEEDED A LITTLE

692

00:29:46,384 --> 00:29:47,986

ADDITIONAL TIME AND WASN'TED TO

693

00:29:48,052 --> 00:29:49,854

MAKE SURE THAT WE WERE ALL SET

694

00:29:49,921 --> 00:29:52,023

UP AND CONFIGURED FOR ON TIME

695

00:29:52,090 --> 00:29:53,658

LAUNCH.

696

00:29:53,725 --> 00:29:56,027

SO WE WILL GET INTO OUR TANKING

697

00:29:56,094 --> 00:29:57,562

OPTS THEN ONCE THAT IS COMPLETED

698

00:29:57,629 --> 00:29:59,130

THE LOADING SEQUENCE IS THE SAME

699

00:29:59,197 --> 00:30:00,899

AS WHAT WAS DEMONSTRATE DURING

700

00:30:00,965 --> 00:30:02,700

WET DRESS IN TERMS WE START WITH

701
00:30:02,767 --> 00:30:06,971
CORE STAGE AND START WITH LOCKS

702
00:30:07,038 --> 00:30:09,340
AND LHQ AND PICK UP WITH THE

703
00:30:09,407 --> 00:30:13,545
UPPER STAGE LOAD AND THEN LOCKS.

704
00:30:13,611 --> 00:30:15,446
ONCE THAT IS COMPLETE, WE HAVE

705
00:30:15,513 --> 00:30:16,981
SAFETY CHECKS WE WILL PERFORM.

706
00:30:17,048 --> 00:30:18,583
WE DEMONSTRATE THOSE AND WE'LL

707
00:30:18,650 --> 00:30:19,751
DEMONSTRATE THEM AGAIN FOR

708
00:30:19,817 --> 00:30:21,786
LAUNCH DAY AND THEN WE'LL GET

709
00:30:21,853 --> 00:30:23,755
INTO OUR TERMINAL COUNT AND

710
00:30:23,821 --> 00:30:25,523
WE'LL COUNTDOWN THROUGH THIS

711
00:30:25,590 --> 00:30:31,696
CRITICAL MILESTONE DOWN TO TO TO

712
00:30:31,763 --> 00:30:33,932
WHERE WE HAND OVER AT BOOSTER

713
00:30:33,998 --> 00:30:35,300

IGNITION AND LIFTOFF TO THE

714

00:30:35,366 --> 00:30:36,768

FLIGHT CONTROL TEAM, SO AS

715

00:30:36,834 --> 00:30:38,069

SEVERAL OTHERS HAVE SAID, THIS

716

00:30:38,136 --> 00:30:40,572

IS A VERY EXCITING TIME.

717

00:30:40,638 --> 00:30:42,340

THIS IS OUR FIRST LAUNCH.

718

00:30:42,407 --> 00:30:43,675

IT HAS BEEN A GREAT LEARNING

719

00:30:43,741 --> 00:30:46,077

EXPERIENCE FOR OUR TEAM AS WE

720

00:30:46,144 --> 00:30:46,811

HAVE GONING THAT THE TESTING THE

721

00:30:46,878 --> 00:30:49,781

WET DRESS CAMPAIGN AND ENROLL

722

00:30:49,847 --> 00:30:51,449

THOSE LESSONS LEARNED INTO THE

723

00:30:51,516 --> 00:30:53,484

LAUNCH PLANNING, AND I PECT THAT

724

00:30:53,551 --> 00:30:54,786

WE'LL LEARN, WE'LL CONTINUE TO

725

00:30:54,852 --> 00:30:57,021

LEARN THINGS AS WE GO THROUGH

726

00:30:57,088 --> 00:30:58,890

LAUNCH COUNTDOWN AND I AM VERY

727

00:30:58,957 --> 00:31:00,124

PLEASEDDED WITH WHERE WE ARE IN

728

00:31:00,191 --> 00:31:01,993

OUR PREPARATIONS AND CERTAINLY,

729

00:31:02,060 --> 00:31:03,761

LOOKING FORWARD WITH TO

730

00:31:03,828 --> 00:31:06,664

FINISHING UP THE WORK IN THE VAB

731

00:31:06,731 --> 00:31:08,266

AND SEEING THIS AMAZING VEHICLE

732

00:31:08,333 --> 00:31:10,268

TROLL THE PAD AND FINISH UP THE

733

00:31:10,335 --> 00:31:16,808

FINAL PREPARATION FOR LAUNCH.

734

00:31:16,874 --> 00:31:17,842

>> THAT IS GREAT.

735

00:31:17,909 --> 00:31:18,643

I CAN'T WAIT TO SEE IT.

736

00:31:18,710 --> 00:31:19,911

THE MISSION HAS BEEN SO MANY

737

00:31:19,978 --> 00:31:21,512

YEARS IN THE MAKING INSOME OF

738

00:31:21,579 --> 00:31:23,281

THE WE HAVE A BRIEF VIDEO TO

739

00:31:23,348 --> 00:31:24,582

SHARE WITH YOU PLEDGING ON THE

740

00:31:24,649 --> 00:31:25,550

WORK THAT HAS BROUGHT US TO THIS

741

00:31:25,617 --> 00:31:42,200

MOMENT.

742

00:32:01,286 --> 00:31:42,800

■ ■

743

00:32:43,795 --> 00:32:54,205

■ JUST AWESOME.

744

00:32:54,272 --> 00:32:56,574

NOW WE'LL GO TO JOHN HONEY CUT

745

00:32:56,641 --> 00:32:58,543

AND OVER TO JOHNSON FOR HOWARD

746

00:32:58,609 --> 00:33:00,878

HUGH TO TALK ABOUT THE ORION

747

00:33:00,945 --> 00:33:01,646

SPACECRAFT.

748

00:33:01,713 --> 00:33:05,516

OVER TO YOU, JOHN.

749

00:33:05,583 --> 00:33:09,587

>> THANK YOU, STEPHANIE.

750

00:33:09,654 --> 00:33:10,555

I LIKE TO START OFF BY TELLING

751
00:33:10,621 --> 00:33:12,090
THAT YOU A LOT OF THE TEAM SPENT

752
00:33:12,156 --> 00:33:14,092
A GOOD PART OF THEIR CAREER AT

753
00:33:14,158 --> 00:33:15,927
NASA WORKING ON THE SPACE

754
00:33:15,993 --> 00:33:21,366
SHUTTLE ON MISSIONS TO LOWER

755
00:33:21,432 --> 00:33:22,066
EARTH ORBIT.

756
00:33:22,133 --> 00:33:23,668
WE LEARNED A TREMENDOUS AMOUNT

757
00:33:23,735 --> 00:33:26,204
ABOUT DESIGNING AND OPERATING

758
00:33:26,270 --> 00:33:30,141
THE SPACE SHUTTLE AND

759
00:33:30,208 --> 00:33:32,944
DESIGNING AND OPERATING A LAUNCH

760
00:33:33,010 --> 00:33:33,745
VEHICLE BUILT FOR HUMAN

761
00:33:33,811 --> 00:33:41,919
EXPLORATION.

762
00:33:41,986 --> 00:33:44,255
NOW, WE ARE GOING TO LAUNCH A

763
00:33:44,322 --> 00:33:44,922

ROCKET.

764

00:33:44,989 --> 00:33:46,424

OUR TEAM REALLY TOOK ADVANTAGE

765

00:33:46,491 --> 00:33:47,625

OF EVERYTHING WE LEARNED FROM

766

00:33:47,692 --> 00:33:49,527

FLYING THE SHUTTLE, OF COURSE,

767

00:33:49,594 --> 00:33:52,563

TO THE SATURN 5 ROCKET.

768

00:33:52,630 --> 00:33:54,665

I WHICH TELL YOU, WE GOT AN

769

00:33:54,732 --> 00:33:56,300

EXCELLENT DESIGN IN THE ROCKET

770

00:33:56,367 --> 00:33:59,370

AND WE UNDERSTAND WHERE OUR

771

00:33:59,437 --> 00:34:03,975

MARGINS AND SENSITIVITIES ARE

772

00:34:04,041 --> 00:34:17,155

AND HIGH LEVEL OF CONFIDENCE.

773

00:34:17,221 --> 00:34:19,490

MADE UP OF THE SOLID ROCKET

774

00:34:19,557 --> 00:34:21,359

BOOSTERS THEN THE RS-25 THAT

775

00:34:21,426 --> 00:34:23,494

GIVES US CONFIDENCE THAT SLS IS

776
00:34:23,561 --> 00:34:25,530
GOING TO BE ABLE TO MEET THOSE

777
00:34:25,596 --> 00:34:26,697
PERFORMANCE TARGETS THAT ARE

778
00:34:26,764 --> 00:34:30,301
REQUIRED AND, THE ROCK KETTLES

779
00:34:30,368 --> 00:34:32,970
ALSO EXTREMELY POWERFUL AS YOU

780
00:34:33,037 --> 00:34:35,239
HEARD, IT IS, IT IS THE ONLY

781
00:34:35,306 --> 00:34:36,974
ROCKET THAT IS CAPABLE OF

782
00:34:37,041 --> 00:34:39,377
SENDING ORION AND THE CREW AND

783
00:34:39,444 --> 00:34:40,878
SUPPLIES INTO DEEP SPACE ON A

784
00:34:40,945 --> 00:34:46,651
SINGLE LAUNCH.

785
00:34:46,717 --> 00:34:48,753
THERE IS HUGE ADVANTAGEABLE THE

786
00:34:48,820 --> 00:34:50,388
SLS THAT IT GIVES US THE

787
00:34:50,455 --> 00:34:51,522
AVAILABILITY FOR A LOT OF CARGO

788
00:34:51,589 --> 00:34:54,826

AND SUPPLIES.

789

00:34:54,892 --> 00:34:56,461
THAT ARE NEEDED TO HAVE

790

00:34:56,527 --> 00:35:01,165
SUCCESSFUL MISSIONS AS FAR AS

791

00:35:01,232 --> 00:35:02,667
THE TESTING GOES, YOU KNOW, WE

792

00:35:02,733 --> 00:35:04,435
HAVE TESTED EVERY COMPONENT ON

793

00:35:04,502 --> 00:35:05,903
THE ROCKET.

794

00:35:05,970 --> 00:35:09,307
MOST COMPONENTS GOT INTERGRATED

795

00:35:09,373 --> 00:35:11,075
INTO A SUB SYSTEM.

796

00:35:11,142 --> 00:35:13,578
THOSE SUB SYSTEM TESTS WERE

797

00:35:13,644 --> 00:35:15,379
PERFORMED, THEN, FINALLY, AL THE

798

00:35:15,446 --> 00:35:18,015
SUB SYSTEMS COME TOGETHER TO

799

00:35:18,082 --> 00:35:21,419
MAKE UP THE SYSTEM LEVELS OF THE

800

00:35:21,486 --> 00:35:24,088
ROCKET IN THE BOOSTERS, THE CORE

801
00:35:24,155 --> 00:35:32,063
STAGE, AND ISPS.

802
00:35:32,129 --> 00:35:33,197
THERE IS A TREMENDOUS AMOUNT

803
00:35:33,264 --> 00:35:35,466
WE LEARNED IN THE SYSTEM LEVEL

804
00:35:35,533 --> 00:35:37,001
TEST STARTING WITH THE GREEN RUN

805
00:35:37,068 --> 00:35:39,303
THEN GOING TO THE REHEARSAL TEST

806
00:35:39,370 --> 00:35:46,978
THAT WE RECENTLY COMPLETED.

807
00:35:47,044 --> 00:35:48,112
THIS TEST FLIGHT WILL BE ONE

808
00:35:48,179 --> 00:35:50,781
THAT PROVIDES US A TREMENDOUS

809
00:35:50,848 --> 00:35:52,116
AMOUNT OF DATA.

810
00:35:52,183 --> 00:35:53,551
I EXPECT WE ARE GOING TO LEARN A

811
00:35:53,618 --> 00:35:55,486
LOT FROM THE THOUSANDS OF

812
00:35:55,553 --> 00:35:56,153
CENTURIES WITH VERY ON THE

813
00:35:56,220 --> 00:35:59,724

ROCKET.

814

00:35:59,790 --> 00:36:01,626

I LIKE TO SHARE WITH YOU A

815

00:36:01,692 --> 00:36:02,326

LITTLE BIT ABOUT THE KIND OF

816

00:36:02,393 --> 00:36:04,061

THINGS WILL BE LOOKING AT AS WE

817

00:36:04,128 --> 00:36:07,899

GET REALLY CLOSE TO THAT TO TIME

818

00:36:07,965 --> 00:36:20,177

TO SEE LIFT OFF THE LAUNCHPAD.

819

00:36:20,244 --> 00:36:22,880

THE PRESSURE IS IN THE LIQUID

820

00:36:22,947 --> 00:36:23,514

HYDROGEN TANK.

821

00:36:23,581 --> 00:36:25,416

WILL BE LOOKING AT THE START-UP

822

00:36:25,483 --> 00:36:29,720

OF OUR AUXILIARY POWER UNITS TO

823

00:36:29,787 --> 00:36:31,222

POWER THE HYDRAULIC SYSTEM TO

824

00:36:31,289 --> 00:36:33,691

MAKE SURE THAT WE GET GOOD

825

00:36:33,758 --> 00:36:36,294

HYDRAULIC PRESSURES.

826
00:36:36,360 --> 00:36:38,663
WE WILL LOOTING THE ENGINES AT

827
00:36:38,729 --> 00:36:41,299
ROUGHLY T MINUS 6 SECONDS TO

828
00:36:41,365 --> 00:36:42,466
WATCH THOSE COME UP TO THE

829
00:36:42,533 --> 00:36:44,402
REQUIRE POWER LEVELS AND THEN

830
00:36:44,468 --> 00:36:45,636
WE'LL GET SEE THE BOOSTERS IS

831
00:36:45,703 --> 00:36:51,442
NIGHT.

832
00:36:51,509 --> 00:36:53,044
THOSE WILL BURN FOR THREE MINUTE

833
00:36:53,110 --> 00:36:53,945
AND SEPARATE FOR THEM.

834
00:36:54,011 --> 00:36:55,546
THE CORE STAGE WILL CONTINUE ON

835
00:36:55,613 --> 00:36:57,081
FOR ABOUT EIGHT MINUTES , AT

836
00:36:57,148 --> 00:36:58,115
WHICH TIME WE'LL ACCEPT BRIT AND

837
00:36:58,182 --> 00:37:04,121
THEN WE'LL GET CLOSE TO THE TIME

838
00:37:04,188 --> 00:37:05,756

WHERE UPPER STAGE WILL TAKE OVER

839

00:37:05,823 --> 00:37:07,091
IN ABOUT TWO HOURS.

840

00:37:07,158 --> 00:37:08,292
IT IS A HEARD, WE WILL DOLL A

841

00:37:08,359 --> 00:37:09,493
COUPLE OF BURNS WITH THE UPPER

842

00:37:09,560 --> 00:37:13,598
STAGE ON THE ROCKET.

843

00:37:13,664 --> 00:37:18,069
ONE TO RAISE THE ORBIT AND THE

844

00:37:18,135 --> 00:37:19,403
OTHER TO SIT OH RYAN ON THE WAY

845

00:37:19,470 --> 00:37:20,271
TO THE MOON.

846

00:37:20,338 --> 00:37:22,506
THE FINAL THING THAT SL CYST

847

00:37:22,573 --> 00:37:24,208
RESPONSIBLE FOR WILL TO BE

848

00:37:24,275 --> 00:37:26,277
DEPLOY THOSE 10 CUBESATS TO GET

849

00:37:26,344 --> 00:37:27,478
THEM ON THE WAY THAT YOU HEARD

850

00:37:27,545 --> 00:37:33,284
ABOUT FURTHER.

851
00:37:33,351 --> 00:37:34,852
HOWARD WITH IS THE ORION PROGRAM

852
00:37:34,919 --> 00:37:37,555
MANAGER AND OH HE IS GOING TO

853
00:37:37,622 --> 00:37:38,923
SHARE WITH YOU MORE ABOUT THE

854
00:37:38,990 --> 00:37:39,690
ORION JOURNEY.

855
00:37:39,757 --> 00:37:50,668
HOWARD?

856
00:37:50,735 --> 00:37:51,469
>> THANKS, JOHN.

857
00:37:51,535 --> 00:37:53,471
CERTAINLY EXCITING TIMES AS WE

858
00:37:53,537 --> 00:37:55,539
EMBARK ON THE FIRST MISSION TO

859
00:37:55,606 --> 00:37:56,440
MOON THE FANTASTIC ROCK KETTLE

860
00:37:56,507 --> 00:37:58,175
IN OUR ORION SPACECRAFT.

861
00:37:58,242 --> 00:38:01,212
YOU KNOW, THIS, SO FAR, THIS

862
00:38:01,278 --> 00:38:02,246
ORION TEAM, WE HAVE DONE A

863
00:38:02,313 --> 00:38:03,648

TREMENDOUS AMOUNT OF WORK

864

00:38:03,714 --> 00:38:05,583

GETTING READY FROM DEA SOONG,

865

00:38:05,650 --> 00:38:06,517

MANUFACTURING ANTEING THE

866

00:38:06,584 --> 00:38:08,853

SPACECRAFT TO ENSURE ITS SUCCESS

867

00:38:08,919 --> 00:38:10,321

AS WOMEN BARK ON A THE FIRST

868

00:38:10,388 --> 00:38:12,456

MISSION TO THE MOON ON ARTEMIS

869

00:38:12,523 --> 00:38:12,723

ONE.

870

00:38:12,790 --> 00:38:14,725

YOU KNOW, IT HAS BEEN A VERY

871

00:38:14,792 --> 00:38:15,960

COLLABORATIVE EFFORT ACROSS

872

00:38:16,027 --> 00:38:17,428

MULTIPLE NASA CENTERS WITH THE

873

00:38:17,495 --> 00:38:20,598

INDUSTRY PARTNERS AND OF COURSE,

874

00:38:20,665 --> 00:38:21,699

OUR SOUTHERN PRIORS ACROSS ALL

875

00:38:21,766 --> 00:38:23,601

50 STATES, INCLUDING THE

876

00:38:23,668 --> 00:38:25,036

EUROPEAN TEAM AS WELL.

877

00:38:25,102 --> 00:38:26,704

THE ADMINISTRATOR NELSON

878

00:38:26,771 --> 00:38:28,305

MENTIONED EARLIER, THE EUROPEAN

879

00:38:28,372 --> 00:38:29,907

TEAM IS VERY IMPORTANT PART OF

880

00:38:29,974 --> 00:38:31,475

THE ERYAN SPACECRAFT AND

881

00:38:31,542 --> 00:38:34,045

EUROPEAN SPACE AGENCY AND THEN,

882

00:38:34,111 --> 00:38:35,880

THERE, THEN INDUSTRY PARTNERS

883

00:38:35,946 --> 00:38:37,248

ACROSS TENURE PROIAN COUNTRIES

884

00:38:37,314 --> 00:38:39,150

IS RESPONSIBLE BUILDING THE

885

00:38:39,216 --> 00:38:39,817

SERVICE MODULE.

886

00:38:39,884 --> 00:38:43,621

IT IS THE POWERHOUSE SIDE OF THE

887

00:38:43,688 --> 00:38:45,289

VEHICLE WHERE IT HAS THE PRIMARY

888

00:38:45,356 --> 00:38:46,090

PROPULSION POWER AND LIFE

889

00:38:46,157 --> 00:38:48,959

SUPPORT RESOURCE WE NEED FOR

890

00:38:49,026 --> 00:38:54,432

ARTEMIS ONE.

891

00:38:54,498 --> 00:38:56,434

YOU HO THE VIDEO REMEAN END AND

892

00:38:56,500 --> 00:38:58,035

BROUGHT GOOD MEMORIES BACK OF AL

893

00:38:58,102 --> 00:38:59,737

THE TESTING WE HAVE DONE ON THE

894

00:38:59,804 --> 00:39:01,172

SPACECRAFT IN EUROPE THAN THE.

895

00:39:01,238 --> 00:39:03,207

YOU WE HAD SIGNIFICANT EFFORTS

896

00:39:03,274 --> 00:39:06,243

NOT ONLY TESTING EVERY COMPONENT

897

00:39:06,310 --> 00:39:06,944

SPENDING HUNDREDS OF THOUSANDS

898

00:39:07,011 --> 00:39:08,579

OF HOURS TESTING THOSE COME POEN

899

00:39:08,646 --> 00:39:11,015

INS TESTING THE INTEGRATED

900

00:39:11,082 --> 00:39:13,751

SYSTEM ANTEING THE ARTEMIS 1

901
00:39:13,818 --> 00:39:16,554
SPACECRAFT REALLY, REALLY GREAT

902
00:39:16,620 --> 00:39:17,588
TESTS THAT WE FORMER OF COURSE

903
00:39:17,655 --> 00:39:19,090
WE HAVE ALSO HAD THREE PREVIOUS

904
00:39:19,156 --> 00:39:23,227
FLIGHT TESTS, TWO TESTS TESTING

905
00:39:23,294 --> 00:39:25,296
THE LAUNCH ABORT SYSTEM AND THE

906
00:39:25,362 --> 00:39:26,664
EXPLORATION FLIGHT TEST ONE

907
00:39:26,731 --> 00:39:27,765
WHICH WE ARE ABLE TO DEMONSTRATE

908
00:39:27,832 --> 00:39:29,500
THE CREW MODULE CAPABILITIES

909
00:39:29,567 --> 00:39:31,001
ALONG WITH THE PARACHUTES SO

910
00:39:31,068 --> 00:39:32,737
THAT WAS VERY GOOD IN TERMS OF

911
00:39:32,803 --> 00:39:34,038
BEING ABLE TO CHECK OUT THE

912
00:39:34,105 --> 00:39:35,239
SYSTEMS NOT ONLY ON THE GROUND

913
00:39:35,306 --> 00:39:37,174

BUT THE PREVIOUS FLIGHT TESTS TO

914

00:39:37,241 --> 00:39:38,676

BE READY FOR ARTEMIS ONE

915

00:39:38,743 --> 00:39:45,583

MISSION.

916

00:39:45,649 --> 00:39:48,786

YOU KNOW, ORION IS DESIGNED FOR

917

00:39:48,853 --> 00:39:50,087

DEEP SPACE TYPE OF MISSION AT

918

00:39:50,154 --> 00:39:51,956

THE BEGINNING THE CORE SYSTEMS

919

00:39:52,022 --> 00:39:54,625

WE ARE USING AVIONIC, COME HUN

920

00:39:54,692 --> 00:39:56,127

CAUTION, GUIDANCE, NAVIGATION,

921

00:39:56,193 --> 00:39:58,529

AND CONTROL SOFTWARE AND

922

00:39:58,596 --> 00:40:00,664

HARDWARE AND ALL OF THOSE

923

00:40:00,731 --> 00:40:02,533

SYSTEMS ARE REUSABLE GOING

924

00:40:02,600 --> 00:40:04,702

FORWARD AS WELL, SO IT IS

925

00:40:04,769 --> 00:40:06,403

IMPORTANT THAT WE HAVE A GOOD

926

00:40:06,470 --> 00:40:08,205

OPPORTUNITY TO TEST THOSE

927

00:40:08,272 --> 00:40:09,807

SYSTEMS TOLLING ON ARTEMIS ONE.

928

00:40:09,874 --> 00:40:11,642

OF COURSE, ADMINISTRATOR NELSON

929

00:40:11,709 --> 00:40:13,410

MENTIONED THE HEAT SHIELD.

930

00:40:13,477 --> 00:40:14,879

THE BIGGEST HEAT SHIELD WE BUILD

931

00:40:14,945 --> 00:40:17,515

TO WITH STAN THE LUNAR ENTRY

932

00:40:17,581 --> 00:40:19,316

VELOCITIES OF 25,000 MILES PER

933

00:40:19,383 --> 00:40:20,985

HOUR PER HOUR AND CERTAINLY VERY

934

00:40:21,051 --> 00:40:22,753

IMPORTANT WE ACCOMPLISH THAT

935

00:40:22,820 --> 00:40:24,121

OBJECTIVE AS PART OF THE ARTEMIS

936

00:40:24,188 --> 00:40:25,723

ONE AND DEMONSTRATE WHAT WE ROLE

937

00:40:25,790 --> 00:40:26,857

IN THE GROUND TESTING THE

938

00:40:26,924 --> 00:40:28,259

CAPABILITIES OF THAT HEAT

939

00:40:28,325 --> 00:40:28,592

SHIELD.

940

00:40:28,659 --> 00:40:30,060

THEN FINALLY, YOU KNOW, AS YOU

941

00:40:30,127 --> 00:40:31,962

ARE HUNDREDS OF THOUSANDS OF

942

00:40:32,029 --> 00:40:33,264

MILES AWAY FROM HOME.

943

00:40:33,330 --> 00:40:34,331

OR EARTH, YOU KNOW, YOU WANT TO

944

00:40:34,398 --> 00:40:36,066

MAKE SURE THAT YOU HAVE

945

00:40:36,133 --> 00:40:37,902

CAPABILITIES NOT ONLY TO ENSURE

946

00:40:37,968 --> 00:40:40,838

CREW SAFETY BUT RECOVER FROM

947

00:40:40,905 --> 00:40:42,173

CONTINGENCIES THEN BUILD SYSTEMS

948

00:40:42,239 --> 00:40:43,774

ONBOARD NOT ONLY BACKUP SYSTEMS

949

00:40:43,841 --> 00:40:45,376

BUT, ALSO, HARD WHICH ARE AND

950

00:40:45,442 --> 00:40:46,744

SOFTWARE, THAT ALLOWS ALLOW THE

951
00:40:46,811 --> 00:40:50,080
CREW TO HAVE COMPLETE INVITE TO

952
00:40:50,147 --> 00:40:51,782
THE VEHICLE AND THEN BE ABLE TO

953
00:40:51,849 --> 00:41:09,533
RECOVER ALONG WITH AUTOMATED

954
00:41:35,626 --> 00:41:36,994
AS I MENTION EARLIER SHALL ONE

955
00:41:37,061 --> 00:41:38,195
OF THE THINGS THAT IS HEAT

956
00:41:38,262 --> 00:41:38,963
SHIELD FIRMANCE.

957
00:41:39,029 --> 00:41:41,999
YOU KNOW, COMING IN, AT

958
00:41:42,066 --> 00:41:43,534
25,000 MILES PER HOUR,

959
00:41:43,601 --> 00:41:45,102
5,000 DEGREES, OF HEATING, AND

960
00:41:45,169 --> 00:41:46,904
DURING RE-ENTRY IS GOING TO BE

961
00:41:46,971 --> 00:41:49,473
REALLY GREAT TO DEMONSTRATE OUR

962
00:41:49,540 --> 00:41:50,941
HEAT SHIELD CAPABILITY MAKING

963
00:41:51,008 --> 00:41:53,077

SURE THAT SPACECRAFT COMES HOME

964

00:41:53,143 --> 00:41:54,378

SAFELY AND FOR FUTURE MISSION

965

00:41:54,445 --> 00:41:55,679

INS PROTECTING THE CREW, THEN,

966

00:41:55,746 --> 00:41:57,314

OF COURSE, THE OTHER SUBSTANCE I

967

00:41:57,381 --> 00:41:59,049

CANNOT FORGET ABOUT THOSE ALONG

968

00:41:59,116 --> 00:41:59,750

THE MISSION.

969

00:41:59,817 --> 00:42:03,754

WE'LL BE TESTING THOSE AS WELL.

970

00:42:03,821 --> 00:42:05,489

NOW LOOKING AS WE GO HIT TO

971

00:42:05,556 --> 00:42:06,590

LUNAR ORBIT AND CHECKING OUT THE

972

00:42:06,657 --> 00:42:11,128

PRIMARY SPACE SHUTTLE END GIBBS

973

00:42:11,195 --> 00:42:20,771

WE ARE USING AS MAIN ENGINE AND

974

00:42:20,838 --> 00:42:23,941

END TO END AND THAT IS GOING TO

975

00:42:24,008 --> 00:42:25,442

BE TREMENDOUS OPPORTUNITY FOR US

976
00:42:25,509 --> 00:42:26,677
TO UTILIZE THAT CAPABILITY TO

977
00:42:26,744 --> 00:42:28,212
MAKE SURE WE HAVE COMMUNICATION

978
00:42:28,279 --> 00:42:30,981
WITH THE GROUND.

979
00:42:31,048 --> 00:42:33,417
OF COURSE FINALLY, THEN WE COME

980
00:42:33,484 --> 00:42:34,084
BACK.

981
00:42:34,151 --> 00:42:35,419
WE COME BACK FROM LUNAR

982
00:42:35,486 --> 00:42:36,987
TRAJECTORIES THEN ABOUT TO LAND

983
00:42:37,054 --> 00:42:38,455
OUR PARACHUTES WILL DEPLY

984
00:42:38,522 --> 00:42:39,156
ANOTHER OPPORTUNITY FOR US TO

985
00:42:39,223 --> 00:42:41,558
DEMONSTRATE OUR PARACHUTE

986
00:42:41,625 --> 00:42:42,626
PERFORMANCE THEN OF COURSE

987
00:42:42,693 --> 00:42:50,301
RECOVERY OPERATIONS AS WELL.

988
00:42:50,367 --> 00:42:52,670

CHARLIE MENTIONED THE FINAL

989

00:42:52,736 --> 00:42:54,538

POWER UP THE LAST FEW DAYS AGO.

990

00:42:54,605 --> 00:42:55,572

WE ARE READY TO MOVE FORWARD.

991

00:42:55,639 --> 00:42:57,074

WE ARE CERTAINLY EXCITED TO BE A

992

00:42:57,141 --> 00:42:58,375

PART OF THIS ARTEMIS ONE

993

00:42:58,442 --> 00:42:59,109

MISSION.

994

00:42:59,176 --> 00:43:01,612

I CAN'T WAIT TO LAUNCH ON THE

995

00:43:01,679 --> 00:43:02,780

ROCKET AND WE ARE READY

996

00:43:02,846 --> 00:43:16,560

FORGETTING TO THE MOON.

997

00:43:16,627 --> 00:43:19,096

YOU CAN PRESS STAR 1 ON THE

998

00:43:19,163 --> 00:43:20,798

PHONE AT ANY TIME THE PHONES ARE

999

00:43:20,864 --> 00:43:21,799

ON MUTE NOW.

1000

00:43:21,865 --> 00:43:23,701

THE OPERATOR WILL OPEN THE MIC

1001
00:43:23,767 --> 00:43:25,569
WHEN WE CALL YOU ON FOR

1002
00:43:25,636 --> 00:43:28,238
QUESTIONS AND CLOSE IT

1003
00:43:28,305 --> 00:43:30,407
AFTERWARDS PLEASE IDENTIFY WHO

1004
00:43:30,474 --> 00:43:32,276
WHOM YOU ARE ADDRESSING YOUR

1005
00:43:32,343 --> 00:43:33,644
QUESTIONS AND PLEASE RESPECT

1006
00:43:33,711 --> 00:43:35,446
EVERYBODY'S TIMES BY KEEPING IT

1007
00:43:35,512 --> 00:43:36,914
ONLY TO ONE QUESTION AND IF WE

1008
00:43:36,981 --> 00:43:38,148
HAVE TIME WE WILL DO A SECOND

1009
00:43:38,215 --> 00:43:42,586
ROUND OF QUESTIONS.

1010
00:43:42,653 --> 00:43:42,853
OK.

1011
00:43:42,920 --> 00:43:43,387
LET'S GET STARTED.

1012
00:43:43,454 --> 00:43:44,355
FIRST UP US "THE ASSOCIATED

1013
00:43:44,421 --> 00:43:51,428

PRESS."

1014

00:43:51,495 --> 00:43:53,597

>> HELLO.

1015

00:43:53,664 --> 00:43:57,735

MY QUESTION IS I WAS HOPING YOU

1016

00:43:57,801 --> 00:43:58,569

COULD PROOFLY COMPARE THE S

1017

00:43:58,635 --> 00:44:00,738

ROCKET WITH SATURN 5 AND THE

1018

00:44:00,804 --> 00:44:01,472

STAR SHIP.

1019

00:44:01,538 --> 00:44:02,940

THE PROS AND THE DONEES.

1020

00:44:03,007 --> 00:44:04,508

COULD YOU ALSO TOUCH ON WHAT IS

1021

00:44:04,575 --> 00:44:05,743

AT STEAK HERE.

1022

00:44:05,809 --> 00:44:07,911

HOW CRUCIAL IS IT FOR ARTEMIS 1

1023

00:44:07,978 --> 00:44:08,712

TO SUCCEED.

1024

00:44:08,779 --> 00:44:13,617

THANKS.

1025

00:44:13,684 --> 00:44:14,852

>> THANK YOU FOR THE QUESTION.

1026
00:44:14,918 --> 00:44:17,221
IN TERMS OF COMPARISON TO SLS

1027
00:44:17,287 --> 00:44:19,289
AND SATURN 5 AND STAR SHIP,

1028
00:44:19,356 --> 00:44:23,761
OBVIOUSLY, WE HAVE GOT TEST DALT

1029
00:44:23,827 --> 00:44:27,598
ON SATURN 5.

1030
00:44:27,664 --> 00:44:29,800
AS WAS STATED EARLIER THE PERM

1031
00:44:29,867 --> 00:44:31,635
PERFORMANCE WAS ABOUT 15% LESS

1032
00:44:31,702 --> 00:44:33,237
THAN WHAT WE EXPECT FOR THE

1033
00:44:33,303 --> 00:44:36,006
SPACE LAUNCH SYSTEM UNDER THE

1034
00:44:36,073 --> 00:44:38,275
CURRENT INITIAL CONFIGURATION

1035
00:44:38,342 --> 00:44:41,311
WHICH WE CALL BLACK 1 WHICH IS

1036
00:44:41,378 --> 00:44:43,247
THE CROWD PROPULSION STAGE AND

1037
00:44:43,313 --> 00:44:45,749
WE UPGRADE LATER TO THE ANSWERED

1038
00:44:45,816 --> 00:44:48,519

UPPER STAGE OR WHAT WE CALL

1039

00:44:48,585 --> 00:44:50,687

BLOCK 1B AND BE ABLE TO DELIVER

1040

00:44:50,754 --> 00:44:52,656

EVEN MORE CARGO TO LOWER EARTH

1041

00:44:52,723 --> 00:45:01,131

ORBIT.

1042

00:45:01,198 --> 00:45:03,067

THAT IS A RELATIVE COMPARISON TO

1043

00:45:03,133 --> 00:45:06,370

THE SATURN 5.

1044

00:45:06,437 --> 00:45:09,006

NOW IN TERMS OF COMPARISON, THE

1045

00:45:09,073 --> 00:45:10,474

STARSHIP, NOW HE, THEY ARE WORK

1046

00:45:10,541 --> 00:45:11,608

THROUGH THE TEST PROGRAM.

1047

00:45:11,675 --> 00:45:14,078

THINK THAT QUESTION IS PLORE

1048

00:45:14,144 --> 00:45:15,379

APPROPRIATE FOR SPACEX.

1049

00:45:15,446 --> 00:45:17,881

HOWEVER, WE KNOW THAT THEIR

1050

00:45:17,948 --> 00:45:20,684

MODEL REQUIRES REFUELING IN

1051
00:45:20,751 --> 00:45:22,986
LOWER EARTH ORBIT IN OUR

1052
00:45:23,053 --> 00:45:26,523
DELIVERY CREW AND CARGO TO ARE

1053
00:45:26,590 --> 00:45:28,125
TO THE MOON OR WHEREVER THEIR

1054
00:45:28,192 --> 00:45:31,128
DESTINATION IS BEYOND LOWER

1055
00:45:31,195 --> 00:45:33,831
EARTH ORBIT SO AS JOHN SAID

1056
00:45:33,897 --> 00:45:36,366
EARLIER, SLS IS DESIGNED,

1057
00:45:36,433 --> 00:45:38,168
UNIQUELY, TO DELIVER CREW AND

1058
00:45:38,235 --> 00:45:40,137
CARGO TO THE POINT OF TRANSLOU!

1059
00:45:40,204 --> 00:45:46,310
LUNAR EJECTION IN ONE SHOT.

1060
00:45:46,376 --> 00:45:48,078
JOHN, DO YOU HAVE ANYTHING TO

1061
00:45:48,145 --> 00:45:52,082
ADD TO THAT?

1062
00:45:52,149 --> 00:45:53,484
>> NOTHING ANOTHER ADD, MIKE.

1063
00:45:53,550 --> 00:45:57,654

I WILL ADD YOUR QUESTION.

1064

00:45:57,721 --> 00:45:58,889

HOW IMPORTANT IS THIS THAT IT

1065

00:45:58,956 --> 00:46:01,758

WORK WITHS?

1066

00:46:01,825 --> 00:46:03,293

WELL, IS VERY IMPORTANT.

1067

00:46:03,360 --> 00:46:11,401

BECAUSE THIS IS A TEST FLIGHT.

1068

00:46:11,468 --> 00:46:14,037

WE ARE GOING FURB TEST FLIGHT,

1069

00:46:14,104 --> 00:46:15,639

STRESS IT MORE THAN WE WILL WITH

1070

00:46:15,706 --> 00:46:20,777

A CREW ONBOARD.

1071

00:46:20,844 --> 00:46:22,746

ONE OF THE THINGS IS THE HEAT

1072

00:46:22,813 --> 00:46:23,080

SHIELD.

1073

00:46:23,147 --> 00:46:24,348

IT IS A TEST FLIGHT.

1074

00:46:24,414 --> 00:46:26,016

THE HEAT SHIELD HAS NOT BEEN

1075

00:46:26,083 --> 00:46:30,487

FLOWN BEFORE.

1076
00:46:30,554 --> 00:46:32,956
THAT IS WHY YOU DO NO CREW TEST

1077
00:46:33,023 --> 00:46:38,962
FLIGHT FIRST.

1078
00:46:39,029 --> 00:46:40,631
WE DIDN'T HAVE THAT LUXURY ON

1079
00:46:40,697 --> 00:46:42,833
THE SPACE SHUTTLE BECAUSE YOU

1080
00:46:42,900 --> 00:46:44,334
HAD TO HAVE A CREW ONBOARD,

1081
00:46:44,401 --> 00:46:47,070
ABOUT IT HAD ALREADY TESTED A

1082
00:46:47,137 --> 00:46:50,974
NUMBER OF ALMOSTS.

1083
00:46:51,041 --> 00:46:53,610
THOSE SILICON TILES ON THE SPACE

1084
00:46:53,677 --> 00:46:54,111
SHUTTLE.

1085
00:46:54,178 --> 00:46:55,279
THIS IS OH BLATIVE HEAT SHIELD.

1086
00:46:55,345 --> 00:46:56,914
THE ONLY WAY YOU CAN TEST IT IS

1087
00:46:56,980 --> 00:46:59,950
TO GET IT OUT THERE AND LET IT

1088
00:47:00,017 --> 00:47:03,420

COME DOWN IN AT 32 MOCK.

1089

00:47:03,487 --> 00:47:06,056

SO THAT IS VERY, VERY IMPORTANT.

1090

00:47:06,123 --> 00:47:07,090

WITH REWORLD INTO COMPARISON.

1091

00:47:07,157 --> 00:47:11,094

WE OFTEN HEAR THIS QUESTION.

1092

00:47:11,161 --> 00:47:23,807

WELL HOW DOES IT COMPARE?

1093

00:47:23,874 --> 00:47:25,709

THIS IS THE ONLY ROCKET.

1094

00:47:25,776 --> 00:47:27,244

WE EXPECT THAT SPACEX WILL HAVE

1095

00:47:27,311 --> 00:47:29,012

THEIR LANDER READY BUT THAT IS

1096

00:47:29,079 --> 00:47:35,619

NOT A RETURN.

1097

00:47:35,686 --> 00:47:37,154

THAT WILL BE WITH FOR ARTEMIS 3

1098

00:47:37,221 --> 00:47:38,822

AND THE LANDING WHICH WE HOPE

1099

00:47:38,889 --> 00:47:43,794

WILL BE LATE 2025.

1100

00:47:43,860 --> 00:47:45,562

HE OTHER THING THAT YOU SHOULD

1101
00:47:45,629 --> 00:47:47,097
KNOW THAT IS WHEN WE HAVE A CREW

1102
00:47:47,164 --> 00:47:50,934
AND WE GO INTO THAT WHAT THEY

1103
00:47:51,001 --> 00:47:54,371
CALL THE NHRO ORBIT, THAT ROCKET

1104
00:47:54,438 --> 00:47:58,742
GOING TO THE MOON HAS GOT PULL A

1105
00:47:58,809 --> 00:48:05,582
LEFT HOOK.

1106
00:48:05,649 --> 00:48:06,984
AND GONE TO ORBIT AROUND THE

1107
00:48:07,050 --> 00:48:09,486
MOON THAT IS AS FITS THE FACE OF

1108
00:48:09,553 --> 00:48:17,861
A CLOCK.

1109
00:48:17,928 --> 00:48:19,263
NA IS A NEW MANEUVER THAT WE

1110
00:48:19,329 --> 00:48:20,530
HAVE TO DO THAT WE HAVE NEVER

1111
00:48:20,597 --> 00:48:21,198
DONE BEFORE.

1112
00:48:21,265 --> 00:48:24,568
REMEMBER, APOLLO WENT INTO

1113
00:48:24,635 --> 00:48:31,408

ORBIT.

1114

00:48:31,475 --> 00:48:33,143

IT LIS GOING TO BE ORBIT THAT

1115

00:48:33,210 --> 00:48:48,925

HAS LINED UP THIS WAY.

1116

00:48:48,992 --> 00:48:50,727

>> THANKS.

1117

00:48:50,794 --> 00:48:51,061

THANKS.

1118

00:48:51,128 --> 00:48:52,429

OUR NEXT QUESTION FROM BILL

1119

00:48:52,496 --> 00:48:53,897

HARWOOD OF CBS BE NEWS.

1120

00:48:53,964 --> 00:48:58,835

REPORTER: YEAH, FRANK.

1121

00:48:58,902 --> 00:49:00,771

WANT TO FOLLOW UP SOMETHING THE

1122

00:49:00,837 --> 00:49:02,072

ADMINISTRATOR JUST MENTIONED.

1123

00:49:02,139 --> 00:49:03,206

CUE GIVE US A SENSE OF WHAT SORT

1124

00:49:03,273 --> 00:49:06,143

OF ADDITIONAL RISKS YOU ARE

1125

00:49:06,209 --> 00:49:07,878

WILLING TO TAKE WITH UNPILOTED

1126
00:49:07,944 --> 00:49:09,246
FLIGHT LIKE TO ONE THAT YOU

1127
00:49:09,313 --> 00:49:10,614
WOULDN'T TAKE WITH THE CREW

1128
00:49:10,681 --> 00:49:12,683
ONBOARD?

1129
00:49:12,749 --> 00:49:15,285
AND, AND, WELL, OK, I WON'T ASK

1130
00:49:15,352 --> 00:49:16,953
THE SECOND QUESTION.

1131
00:49:17,020 --> 00:49:19,389
THAT IS MY QUESTION.

1132
00:49:19,456 --> 00:49:19,823
THANKS.

1133
00:49:19,890 --> 00:49:25,762
THAT IS A GREAT QUESTION.

1134
00:49:25,829 --> 00:49:29,633
IT IS UNCREWED TEST PLATE.

1135
00:49:29,700 --> 00:49:31,535
WE ARE DELIBERATELY LEANING FOR

1136
00:49:31,601 --> 00:49:34,271
END THAT INTEREST OF GETTING THE

1137
00:49:34,338 --> 00:49:35,005
PRIORITY ONE WRONG QIV WHICH IS

1138
00:49:35,072 --> 00:49:35,739

DEMONSTRATING THE HEAT SHIELD

1139

00:49:35,806 --> 00:49:36,640

AND LEANING FORWARD TO GET

1140

00:49:36,707 --> 00:49:38,942

THROUGH THE POINT OF TRANSLUNAR

1141

00:49:39,009 --> 00:49:40,344

INJECTION TO PUT ALL OF THAT

1142

00:49:40,410 --> 00:49:41,845

NERN GY THE SYSTEM SOL THE HEAT

1143

00:49:41,912 --> 00:49:43,280

SHIELD CAN TAKE AT THIS TIME OUT

1144

00:49:43,347 --> 00:49:45,115

LATER, SO IF YOU ARE LOOKING AT

1145

00:49:45,182 --> 00:49:51,555

RELATIVE COMPARISON TO GO NO GO

1146

00:49:51,621 --> 00:49:53,523

PRY CRITERIA FOR LATER CREW

1147

00:49:53,590 --> 00:49:53,890

MISSIONS.

1148

00:49:53,957 --> 00:49:56,259

WE WILL BE GO FOR FAIL OARS ON

1149

00:49:56,326 --> 00:49:58,028

ARTEMIS ONE THAT WE WOULD BE

1150

00:49:58,095 --> 00:49:59,996

NORMALLY BE NO GO FOR IN THE

1151
00:50:00,063 --> 00:50:01,565
INTEREST OF CREW SAFETY.

1152
00:50:01,631 --> 00:50:04,034
BECAUSE WE ARE LOOKING THAT FROM

1153
00:50:04,101 --> 00:50:06,036
THE MAKE DRO PERSPECTIVE, AND

1154
00:50:06,103 --> 00:50:07,971
THE MANY VEST, WE ARE TRYING TO

1155
00:50:08,038 --> 00:50:10,640
BUY DOWN RISKS FOR CRUDE FLIGHT

1156
00:50:10,707 --> 00:50:13,276
TO WILLING TO TAKE MORE RISKS ON

1157
00:50:13,343 --> 00:50:15,078
ARTEMIS 1 ON UNCRUDE TEST FLIGHT

1158
00:50:15,145 --> 00:50:17,147
THAN WEE ON LATER CREW FLIGHT.

1159
00:50:17,214 --> 00:50:18,014
THAT IS A GREAT QUESTION.

1160
00:50:18,081 --> 00:50:18,915
THANK YOU FOR THAT.

1161
00:50:18,982 --> 00:50:22,119
BY THE WAY, THAT IS THIS Y IS

1162
00:50:22,185 --> 00:50:22,886
42-DAY MISSION.

1163
00:50:22,953 --> 00:50:25,288

THEY ARE PULLING ALL KINDS OF

1164

00:50:25,355 --> 00:50:26,223

MANEUVERS AS THEY GO AROUND THE

1165

00:50:26,289 --> 00:50:31,595

MOON.

1166

00:50:31,661 --> 00:50:33,730

JUST REMEMBER ITATION TEST

1167

00:50:33,797 --> 00:50:34,064

FLIGHT.

1168

00:50:34,131 --> 00:50:34,431

OK, GREAT.

1169

00:50:34,498 --> 00:50:35,899

THE NEXT QUESTION IS FROM TODD

1170

00:50:35,966 --> 00:50:41,972

SHIELDS OF BLOOMBERG NEWS.

1171

00:50:42,038 --> 00:50:42,773

>> MUCH REPORT HI, THANKS VERY

1172

00:50:42,839 --> 00:50:43,173

MUCH.

1173

00:50:43,240 --> 00:50:44,174

THIS IS VERY GENERAL.

1174

00:50:44,241 --> 00:50:45,876

LAST BRIEFING, ALL MENTIONED

1175

00:50:45,942 --> 00:50:51,314

THREE POSSIBLE DATES AUGUST 29,

1176

00:50:51,381 --> 00:50:51,948

SEPTEMBER 2, SEPTEMBER 5.

1177

00:50:52,015 --> 00:50:52,449

DOES THAT STILL HOLD?

1178

00:50:52,516 --> 00:50:54,785

WHEN WILL WE KNOW WHEN YOU HAVE

1179

00:50:54,851 --> 00:50:55,285

A DEFINITE DATE?

1180

00:50:55,352 --> 00:50:56,453

THANK YOU.

1181

00:50:56,520 --> 00:50:57,421

>> YEAH.

1182

00:50:57,487 --> 00:50:58,355

THANK YOU, TODD.

1183

00:50:58,422 --> 00:50:58,722

YES.

1184

00:50:58,789 --> 00:51:10,667

THE DATES THAT WE TALKED EARLIER

1185

00:51:10,734 --> 00:51:12,669

WE RECEIVED THAT WITH THE

1186

00:51:12,736 --> 00:51:13,937

EASTERN VAG WE GOT BASICALLY A

1187

00:51:14,004 --> 00:51:16,306

DATE WITH A RANGE.

1188

00:51:16,373 --> 00:51:17,941

ON THE 29th OF AUGUST.

1189

00:51:18,008 --> 00:51:19,576

PHYSICAL WE ARE UNABLE TO LAUNCH

1190

00:51:19,643 --> 00:51:21,511

FOR WHATEVER REASON, WEATHER,

1191

00:51:21,578 --> 00:51:25,549

TECHNICAL, RANGE, THAT KIND OF

1192

00:51:25,615 --> 00:51:28,018

STUFF, OUR BACKUP DATE IS

1193

00:51:28,084 --> 00:51:29,419

INEARLIER THAN SEPTEMBER SECOND,

1194

00:51:29,486 --> 00:51:32,189

THE REASON IS DURING THE

1195

00:51:32,255 --> 00:51:35,358

OUTBOUND LEG OF THE MISSION AS

1196

00:51:35,425 --> 00:51:36,860

ORION FLIES OUTBOUND FROM THE

1197

00:51:36,927 --> 00:51:38,895

EARTH THOUGH MOON, WE HAVE WHAT

1198

00:51:38,962 --> 00:51:40,797

WE CALL AN ECLIPSE.

1199

00:51:40,864 --> 00:51:42,165

THAT ECLIPSE EXCEEDS 90 MACHINE

1200

00:51:42,232 --> 00:51:43,033

MACHINES WITH WHICH WE SCREEN

1201
00:51:43,099 --> 00:51:44,434
OUT IN TERMS OF THE LAUNCH

1202
00:51:44,501 --> 00:51:47,003
ATTEMPTS, SO WHEN WE HAVE ONE

1203
00:51:47,070 --> 00:51:47,838
WATCH THOSE ECLIPSE VIOLATIONS

1204
00:51:47,904 --> 00:51:49,773
WHAT WE ARE CONCERNED ABOUTS THE

1205
00:51:49,840 --> 00:51:50,941
POWER PRODUCTION ON THE

1206
00:51:51,007 --> 00:51:53,677
SPACECRAFT, SO WE HAVE ANALYSIS

1207
00:51:53,743 --> 00:51:54,978
TEAMS AND TOOLS THAT LOOK FOR

1208
00:51:55,045 --> 00:51:56,813
THESE TYPE OF CONDITIONS AND

1209
00:51:56,880 --> 00:51:59,816
SCREEN THOSE OUT SO THAT IS WHY

1210
00:51:59,883 --> 00:52:00,650
AUGUST 30th, 31stS ,

1211
00:52:00,717 --> 00:52:01,885
SEPTEMBER FIRST ARE NOT

1212
00:52:01,952 --> 00:52:05,655
CONSIDERED VIABLE LAUNCH

1213
00:52:05,722 --> 00:52:06,690

OPPORTUNITIES.

1214

00:52:06,756 --> 00:52:07,257

HAS NOTHING TO DO WITH

1215

00:52:07,324 --> 00:52:07,891

PERFORMANCE OF THE ROCKET.

1216

00:52:07,958 --> 00:52:10,293

WE COULD LAUNCH THOSE DAYS FROM

1217

00:52:10,360 --> 00:52:11,094

SLS PERSPECTIVE.

1218

00:52:11,161 --> 00:52:11,995

IT HAS TO DO WITH POWER

1219

00:52:12,062 --> 00:52:13,497

PRODUCTION ON THE SPACECRAFT.

1220

00:52:13,563 --> 00:52:16,900

AFTER SEPTEMBER SECOND, THE

1221

00:52:16,967 --> 00:52:18,468

LAUNCH ADULTS GO OUT TO

1222

00:52:18,535 --> 00:52:19,202

SEPTEMBER 6th.

1223

00:52:19,269 --> 00:52:23,473

THEN INTEREST OF HOLDING A

1224

00:52:23,540 --> 00:52:25,208

RESERVATION ON THE RANGE, AND

1225

00:52:25,275 --> 00:52:26,943

THERE IS A LOT OF TRAFFIC ON THE

1226
00:52:27,010 --> 00:52:29,513
RANGE WHERE WE SHALL ASK FOR

1227
00:52:29,579 --> 00:52:30,647
SEPTEMBER 5th AND THAT IS

1228
00:52:30,714 --> 00:52:32,749
SUM PLY BASED ON THE CADENCE IF

1229
00:52:32,816 --> 00:52:36,119
WE WERE TO LOAD CRYOGENIC FUEL

1230
00:52:36,186 --> 00:52:37,287
AND OXYGEN CORE STAGE AND UPPER

1231
00:52:37,354 --> 00:52:39,089
STAGE, WE NEED TIME REPLENISH

1232
00:52:39,155 --> 00:52:40,690
THAT AND TAKE US FOR THE THIRD

1233
00:52:40,757 --> 00:52:42,425
ATTEMPT ABOUT 72 HOURS TOES DO

1234
00:52:42,492 --> 00:52:46,463
THAT AND THEN, THEN, CHARLIE Z

1235
00:52:46,530 --> 00:52:47,664
IS YOU ARE LAUNCH DIRECTOR.

1236
00:52:47,731 --> 00:52:48,932
DO YOU HAVE ANYTHING TO ADD TO

1237
00:52:48,999 --> 00:53:00,510
THAT?

1238
00:53:00,577 --> 00:53:02,178

>> THE ONLY THING I WOULD ADD IS

1239

00:53:02,245 --> 00:53:04,114

THAT THOSE ARE ALL TARGET DATES

1240

00:53:04,180 --> 00:53:05,849

DEPENDING ON HOW MUCH COMMODITY

1241

00:53:05,916 --> 00:53:07,817

YOU USED OR MAYBE IS REMAINING

1242

00:53:07,884 --> 00:53:09,119

IN THE TANK ARE CERTAINLY

1243

00:53:09,185 --> 00:53:09,719

DRIVERS.

1244

00:53:09,786 --> 00:53:11,388

WE HAVE ALL OF THOSE DISCUSSIONS

1245

00:53:11,454 --> 00:53:13,890

AT OUR SCRUB MEETING WHEN WE SET

1246

00:53:13,957 --> 00:53:15,392

THE OFFICIAL NEXT ATTEMPT BUT

1247

00:53:15,458 --> 00:53:16,793

OTHER THAN THAT, I THINK YOU

1248

00:53:16,860 --> 00:53:34,477

COVERED IT VERY WELL.

1249

00:54:19,823 --> 00:54:21,625

DRESSES ATTEMPTS 1-4.

1250

00:54:21,691 --> 00:54:24,928

THE RANGE HAS THAT DATA AND THEY

1251
00:54:24,995 --> 00:54:27,063
ARE REVIEWING IT CURRENTLY.

1252
00:54:27,130 --> 00:54:28,665
OUR REQUIREMENT IS 20 DAS.

1253
00:54:28,732 --> 00:54:35,038
THE PLANS PLAY TO SUPPORT TWO

1254
00:54:35,105 --> 00:54:36,373
LAUNCH ATTEMPT DURING THAT DAY.

1255
00:54:36,439 --> 00:54:38,308
WE WILL CONTINUE TO AND SHOULD

1256
00:54:38,375 --> 00:54:39,609
ADDITIONAL DAYS BECOME AVAILABLE

1257
00:54:39,676 --> 00:54:43,046
WE'LL BE FACTOR THAT IN THIS HE

1258
00:54:43,113 --> 00:54:45,582
SCRUB PLANNING.

1259
00:54:45,649 --> 00:54:45,949
OK.

1260
00:54:46,016 --> 00:54:52,522
GREAT THANK YOU.

1261
00:54:52,589 --> 00:54:52,789
OK.

1262
00:54:52,856 --> 00:54:55,525
NEXT QUESTION.

1263
00:54:55,592 --> 00:54:55,825

OK.

1264

00:54:55,892 --> 00:55:01,231

CUE PROVIDE SOME MORE DETAILS

1265

00:55:01,297 --> 00:55:04,267

AND LEVEL WHAT O'BRIAN IS GOING

1266

00:55:04,334 --> 00:55:06,236

TO BE DOING DURING THE LUNAR

1267

00:55:06,302 --> 00:55:09,773

OPERATIONS?

1268

00:55:09,839 --> 00:55:12,876

I WILL START WITH THAT ONE AND

1269

00:55:12,942 --> 00:55:17,013

YOU CAN ADD ANYTHING THAT I

1270

00:55:17,080 --> 00:55:17,681

MISSED.

1271

00:55:17,747 --> 00:55:21,484

A WE HEAD UPHILL ORION WILL NEED

1272

00:55:21,551 --> 00:55:26,356

TO BE CONVERTED FROM LAUREN

1273

00:55:26,423 --> 00:55:28,158

CONFIGURATION WHICH IS DESIGNED

1274

00:55:28,224 --> 00:55:30,794

TO PROTECT ABOLTER MODE ON CREW

1275

00:55:30,860 --> 00:55:33,863

FLIGHTS INTO THIS SPACECRAFT.

1276

00:55:33,930 --> 00:55:35,732

AFTER WE JETTISON THE LAUNCH

1277

00:55:35,799 --> 00:55:37,567

ABORT SYSTEM WHICH WILL HAPPEN

1278

00:55:37,634 --> 00:55:38,334

FORAMEN MACHINES INTO THE FLIGHT

1279

00:55:38,401 --> 00:55:39,636

AND AS WELL AS THE SERVICE

1280

00:55:39,703 --> 00:55:41,738

MODULE ORION WILL STILL HAVE THE

1281

00:55:41,805 --> 00:55:45,341

SOLAR ARRAY WINGS STOWED AND

1282

00:55:45,408 --> 00:55:47,844

WELL WILL CONFIGURE THE COOLING

1283

00:55:47,911 --> 00:55:51,214

SYSTEMS AS WELL AS THE POWER

1284

00:55:51,281 --> 00:55:52,282

SYSTEMS AFTER WE DURING THE

1285

00:55:52,348 --> 00:55:55,518

CLIMB TO ORBIT OR AFTER WE GET

1286

00:55:55,585 --> 00:55:57,187

TO ORBIT AROUND THINK TIME WE DO

1287

00:55:57,253 --> 00:55:58,888

THE MANEUVER AND DEPLOY THE

1288

00:55:58,955 --> 00:56:01,157

SOLAR ARRAYS, ORION WILL GET OFF

1289

00:56:01,224 --> 00:56:03,560

OF BATTERY BAUER TON SOLAR ARRAY

1290

00:56:03,626 --> 00:56:06,129

POWER THEN, THEN, SERIES OF

1291

00:56:06,196 --> 00:56:07,664

SYSTEMS CHECK WILL BE FORMED IN

1292

00:56:07,731 --> 00:56:10,233

ORDER TO DECIDE WHETHER IT A IS

1293

00:56:10,300 --> 00:56:11,968

A PROPERTY TO COMMIT TO THE

1294

00:56:12,035 --> 00:56:13,470

POINT OF TRANSLUNAR INJECTION

1295

00:56:13,536 --> 00:56:15,805

AND WE MADE ALL THE GO CRITERIA

1296

00:56:15,872 --> 00:56:17,507

AS PART OF THE GO NO GO

1297

00:56:17,574 --> 00:56:19,676

CHECKLIST AND ORION WILL HEAD

1298

00:56:19,743 --> 00:56:20,477

OUTBOUND AND THEN SEPARATE FROM

1299

00:56:20,543 --> 00:56:24,314

THE PROPULSION STAGE AND THE

1300

00:56:24,380 --> 00:56:25,448

UPPER STAGE THEN DURING THE

1301
00:56:25,515 --> 00:56:28,017
COAST PHASE, WE WILL LOOK AT

1302
00:56:28,084 --> 00:56:29,919
JUST BASICALLY THE ENTIRE

1303
00:56:29,986 --> 00:56:32,155
SPACECRAFT HEALTH AND STATUS AND

1304
00:56:32,222 --> 00:56:33,823
TRANSITION OFF THE SPACE NETWORK

1305
00:56:33,890 --> 00:56:36,059
WHICH USES THE TRACKING AND DATA

1306
00:56:36,126 --> 00:56:37,894
RELAY SATELLITE AND ORBIT AND

1307
00:56:37,961 --> 00:56:39,529
TRANSITION OVER TO THE DEEP

1308
00:56:39,596 --> 00:56:40,663
SPACE NETWORK FOR COMMAND AND

1309
00:56:40,730 --> 00:56:42,165
CONTROL AND COMMUNICATION AND

1310
00:56:42,232 --> 00:56:44,901
IMAGERY AND FILE UP LOAD AND

1311
00:56:44,968 --> 00:56:47,070
DOWNLOADS AND WE'LL LOOK AT THE

1312
00:56:47,137 --> 00:56:49,973
WHOLE DEPTH AND BREADTH OF THE

1313
00:56:50,039 --> 00:56:51,941

SYSTEMS AND BOTH THE COMMAND

1314

00:56:52,008 --> 00:56:53,777

DATA AND THE ATTITUDE CONTROL

1315

00:56:53,843 --> 00:56:55,979

SYSTEM AND THE COOLING SYSTEM

1316

00:56:56,045 --> 00:56:58,448

AND ALL OF THOSE SYSTEMS AS WE

1317

00:56:58,515 --> 00:57:02,185

FLY OUT THROUGH THE BELTINGS AND

1318

00:57:02,252 --> 00:57:02,852

ENCOUNTER HIGH PERIODS OF

1319

00:57:02,919 --> 00:57:05,889

RADIATION AND THEN, THEN, SET

1320

00:57:05,955 --> 00:57:10,426

OURSELVES UP FOR THE ENTRY INTO

1321

00:57:10,493 --> 00:57:12,462

THE DISTANCE RETROGRID ORBIT

1322

00:57:12,529 --> 00:57:14,764

IT'S THE TWO MINUTE SEQUENCE THE

1323

00:57:14,831 --> 00:57:17,300

FIRST USES THE GRAVITY ASSIST TO

1324

00:57:17,367 --> 00:57:20,370

SET UP ONRAMP TO THE LUNAR ORBIT

1325

00:57:20,436 --> 00:57:22,105

AND ORION MAIN ENGINE WILL BE

1326
00:57:22,172 --> 00:57:25,408
FIRED FOR THAT LUNAR GRAVE TY

1327
00:57:25,475 --> 00:57:27,811
ASSIST AS WELL AS THE ONRAMP TO

1328
00:57:27,877 --> 00:57:30,046
THE DISTANT RETROGRID ORBIT THAN

1329
00:57:30,113 --> 00:57:32,348
THE OUTBOUND POWERED FLY BAY AND

1330
00:57:32,415 --> 00:57:34,150
THE RETROGRADE INSERTION.

1331
00:57:34,217 --> 00:57:34,784
WHILE WE ARE THROUGHOUT.

1332
00:57:34,851 --> 00:57:38,922
WE WILL DOLL A SYSTEM SHAKEOUT

1333
00:57:38,988 --> 00:57:42,325
ORION WILL BE 270-257,000-MILES

1334
00:57:42,392 --> 00:57:43,393
FROM EARTH AT THAT PINT AND THE

1335
00:57:43,459 --> 00:57:44,727
FURTHEST POINT AND IT WILL BE

1336
00:57:44,794 --> 00:57:46,095
FURTHER THAN ANY HUMAN

1337
00:57:46,162 --> 00:57:47,096
CAPABILITY OF SPACECRAFT HAS

1338
00:57:47,163 --> 00:57:49,966

EVER GONE AND THEN WE'LL SET UP

1339

00:57:50,033 --> 00:57:56,806

FOR RETURN.

1340

00:57:56,873 --> 00:57:59,709

WE'LL FORMER THE DEPARTURE GRID

1341

00:57:59,776 --> 00:58:02,378

AND RETURNED POWERED FLYBY USING

1342

00:58:02,445 --> 00:58:03,546

THE MAIN ENGINES THAT IS

1343

00:58:03,613 --> 00:58:05,648

ESSENTIALLY OUR DEORBIT BURN

1344

00:58:05,715 --> 00:58:07,317

FROM A QARER MILLION MILES A WAY

1345

00:58:07,383 --> 00:58:09,152

AND WE HAVE TO LET THEATER'S

1346

00:58:09,219 --> 00:58:12,055

REENTRY CORE CORE CORRIDOR IF WE

1347

00:58:12,121 --> 00:58:14,657

HIT IT TOO SHALL LE AND SKIP

1348

00:58:14,724 --> 00:58:15,792

BACK TO SPACE AND IF WE HIT TOO

1349

00:58:15,859 --> 00:58:17,327

STEEP WE OVERSTRESS THE VEHICLE

1350

00:58:17,393 --> 00:58:19,395

AND IT IS A TEST FLIGHT AND HIT

1351
00:58:19,462 --> 00:58:22,699
THAT WITH PRECISION AND THE COME

1352
00:58:22,765 --> 00:58:23,433
MACHINE AND CONTROL SYSTEM AND

1353
00:58:23,499 --> 00:58:26,236
THE REENTRY AND GUIDANCE SYSTEM

1354
00:58:26,302 --> 00:58:27,637
ON THE VEHICLE NEEDS TO BE ABLE

1355
00:58:27,704 --> 00:58:29,439
TO HANDLE THIS AND THEN, HEN,

1356
00:58:29,505 --> 00:58:31,140
WE'LL GO THROUGH THE SERVICE

1357
00:58:31,207 --> 00:58:39,249
MODULE THEN IN AT TOLD YOU A OF

1358
00:58:39,315 --> 00:58:40,750
400 THOUSAND FEET AND GET

1359
00:58:40,817 --> 00:58:42,085
CAPTURE AND SLOW THE VEHICLE

1360
00:58:42,151 --> 00:58:44,954
DOWN FROM MOCK 32 TO 0 AND THEN

1361
00:58:45,021 --> 00:58:47,724
IN ABOUT 20 MINUTES AFTER THE

1362
00:58:47,790 --> 00:58:49,092
VEHICLE GOES THROUGH PEAK

1363
00:58:49,158 --> 00:58:51,027

HEATING AND PEAK AERODYNAMIC

1364

00:58:51,094 --> 00:58:53,496

LOAD THEN THE PARACHUTE DEPLOY

1365

00:58:53,563 --> 00:58:55,465

SEQUENCE ONCE IT GOES UP AND

1366

00:58:55,531 --> 00:58:57,066

SPLASH DOWN ABOUT 20 MILES PER

1367

00:58:57,133 --> 00:58:58,468

HOUR SO THERE IS A LOT OF EVENTS

1368

00:58:58,534 --> 00:59:00,103

AND VERY DYNAMIC ALL ALONG THE

1369

00:59:00,169 --> 00:59:02,772

WAY AND CAPTURING AND CAPTURING

1370

00:59:02,839 --> 00:59:06,776

ENGINEERING DATA AND GOING TO BE

1371

00:59:06,843 --> 00:59:08,578

PERFORMING SCIENCE AS BOBBY

1372

00:59:08,645 --> 00:59:09,612

MENTIONED EARLIER AND THERE IS A

1373

00:59:09,679 --> 00:59:12,949

LOT OF SUB OB JKIVES WITHIN WHAT

1374

00:59:13,016 --> 00:59:18,922

WE JUST TALKED.

1375

00:59:18,988 --> 00:59:20,323

HOWARD, DO YOU HAVE ANYTHING TO

1376

00:59:20,390 --> 00:59:24,060

ADD TO THAT?

1377

00:59:24,127 --> 00:59:25,161

>> YEAH, HEY, MIKE, THANKS.

1378

00:59:25,228 --> 00:59:27,563

THAT WAS GREAT EXCELLENT SUM

1379

00:59:27,630 --> 00:59:28,264

RIFF ALL THE THINGS THAT WILL

1380

00:59:28,331 --> 00:59:29,866

HAPPEN ACROSS THE 42-DAY

1381

00:59:29,933 --> 00:59:30,600

MISSION.

1382

00:59:30,667 --> 00:59:32,201

YOU KNOW, I WILL ADD SAFE

1383

00:59:32,268 --> 00:59:33,336

INDIVIDUAL LEG WILL HAVE

1384

00:59:33,403 --> 00:59:34,337

CHECKOUTS ONE OF THE THINGS I

1385

00:59:34,404 --> 00:59:35,605

MENTIONED EARLIER IS CERTAINLY

1386

00:59:35,672 --> 00:59:37,507

CHECK OUT PROPULSION SYSTEM

1387

00:59:37,573 --> 00:59:40,410

BEFORE WE COMMIT TOT THE DISTANT

1388

00:59:40,476 --> 00:59:42,145

RETROGRADE ORBIT THEN ALSO

1389

00:59:42,211 --> 00:59:44,013

CHECKING OUT THE NAV SYSTEM THAT

1390

00:59:44,080 --> 00:59:46,649

WILL HELP US NAVIGATE IN CASE WE

1391

00:59:46,716 --> 00:59:48,084

LOSE NOT ONLY ON THIS MISSION

1392

00:59:48,151 --> 00:59:49,852

BUT FOR FUTURE MISSIONS AS WELL,

1393

00:59:49,919 --> 00:59:51,020

SO REALLY GREAT OPPORTUNITY TO

1394

00:59:51,087 --> 00:59:52,822

TEST THE SYSTEMS NOT ONLY THE

1395

00:59:52,889 --> 00:59:53,856

PRIMARY SYSTEMS THAT MIKE IS

1396

00:59:53,923 --> 00:59:55,758

TALKING ABOUT BUT ALSO, OTHER

1397

00:59:55,825 --> 00:59:57,694

SECONDARY KINDS OF OBJECTIVES TO

1398

00:59:57,760 --> 00:59:59,896

ENSURE AUM THE SYSTEMS HAVE

1399

00:59:59,963 --> 01:00:00,897

ONBOARD IS GOING TO BE OPERATING

1400

01:00:00,964 --> 01:00:03,633

AS WE NEED THEM IN THE DEEP

1401

01:00:03,700 --> 01:00:05,134

SPACE ENVIRONMENT THEN, ALSO,

1402

01:00:05,201 --> 01:00:07,770

ALSO, I WILL ADD ON, WE ARE

1403

01:00:07,837 --> 01:00:08,938

CAPTURING A LOT OF DATA.

1404

01:00:09,005 --> 01:00:10,440

WE HAVE THOUSANDS OF CENSURES

1405

01:00:10,506 --> 01:00:11,607

ONBOARD AND THEY WILL BE WITH BE

1406

01:00:11,674 --> 01:00:13,076

RECORD AND THEN, DURING THE

1407

01:00:13,142 --> 01:00:13,843

MISSION, WE WILL BE DOWNLINKING

1408

01:00:13,910 --> 01:00:16,980

THE DATA AND OUR ENGINEERING

1409

01:00:17,046 --> 01:00:19,315

TEAM WILL BE LOOKING AT IT AND

1410

01:00:19,382 --> 01:00:20,416

ACCESSING THE FIRMANCE ALONGING

1411

01:00:20,483 --> 01:00:22,452

WITH THE OVERALL HEALTH OF EACH

1412

01:00:22,518 --> 01:00:25,722

SUB SYSTEM THANK YOU, MIKE.

1413

01:00:25,788 --> 01:00:28,358

>> GREAT DETAILED ANSWERS.

1414

01:00:28,424 --> 01:00:28,825

THANK YOU, BOTH.

1415

01:00:28,891 --> 01:00:30,159

NEXT WE TAKE A QUESTION FROM

1416

01:00:30,226 --> 01:00:36,532

LIAM FROM NEWS 8.

1417

01:00:36,599 --> 01:00:37,333

>> HI, GOOD MORNING, EVERYBODY.

1418

01:00:37,400 --> 01:00:38,101

THIS QUESTION IS NOT TO THE

1419

01:00:38,167 --> 01:00:39,435

ARTEMIS ONE BUT THE ARTEMIS

1420

01:00:39,502 --> 01:00:41,771

MISSION AS A WHOLE AND DIRECT TO

1421

01:00:41,838 --> 01:00:42,605

MR. ADMINISTRATOR.

1422

01:00:42,672 --> 01:00:44,007

ONE WITH OF THE BIG THINGS IS

1423

01:00:44,073 --> 01:00:45,174

PUBLIC OUTREACH ON A MISSION

1424

01:00:45,241 --> 01:00:46,542

LIKE THIS.

1425

01:00:46,609 --> 01:00:47,377

HEY WITNESS FAMOUSLY BELIEVED

1426

01:00:47,443 --> 01:00:50,246

THE APOLLO MISSION SOME OF THE

1427

01:00:50,313 --> 01:00:52,682

LOOK LOOK OF FUNNING THAT ENDED

1428

01:00:52,749 --> 01:00:53,416

THE PLANE IN END WAS DIE THIS

1429

01:00:53,483 --> 01:00:54,283

LOOK OF PUBLIC INTEREST AND WORK

1430

01:00:54,350 --> 01:00:55,785

IN THE NEWSROOM FULL OF PEOPLE

1431

01:00:55,852 --> 01:00:57,420

AND THEN OUT OF THEM, OUT OF 20

1432

01:00:57,487 --> 01:00:58,788

PEOPLE IN THE MEETING THIS

1433

01:00:58,855 --> 01:00:59,222

MORNING.

1434

01:00:59,288 --> 01:01:00,556

THERE WERE TWO UNCROWD THATTING

1435

01:01:00,623 --> 01:01:01,657

MYSELF THAT KNEW WE WERE GOING

1436

01:01:01,724 --> 01:01:02,625

BACK TO MOON.

1437

01:01:02,692 --> 01:01:04,927

WHATS THE LONG TERM PLAN TO KEEP

1438

01:01:04,994 --> 01:01:07,597

PUBLIC INTERESTS ACTIVE THIS AND

1439

01:01:07,663 --> 01:01:10,099

AS WE GO THROUGH THE LONG TERM

1440

01:01:10,166 --> 01:01:11,467

STAGES OF THE DEEP SPACE

1441

01:01:11,534 --> 01:01:12,668

MISSIONS THAT ARE PLANNED AS

1442

01:01:12,735 --> 01:01:19,876

RESULT OF THIS.

1443

01:01:19,942 --> 01:01:21,778

>> TELL ME WHAT THE NEWS

1444

01:01:21,844 --> 01:01:22,845

ORGANIZATION IS?

1445

01:01:22,912 --> 01:01:23,846

ONLY TWO PEOPLE KNEW ABOUT THIS

1446

01:01:23,913 --> 01:01:24,680

YEAH.

1447

01:01:24,747 --> 01:01:27,050

A LOCAL CBS AFFILIATE IN

1448

01:01:27,116 --> 01:01:27,817

ROCHESTER NEW YORK.

1449

01:01:27,884 --> 01:01:28,484

>> OK.

1450

01:01:28,551 --> 01:01:29,652

IF YOU WERE THE LOCAL AND

1451
01:01:29,719 --> 01:01:34,724
ORLANDO, FLORIDA, IT WOULD WAB

1452
01:01:34,791 --> 01:01:36,325
WHOLE DIFFERENT STORY; HOWEVER,

1453
01:01:36,392 --> 01:01:37,627
THE POINT THAT YOU MAKE IS A

1454
01:01:37,693 --> 01:01:44,867
GOOD ONE.

1455
01:01:44,934 --> 01:01:45,935
I REMEMBER FOR YEARS AFTER WE

1456
01:01:46,002 --> 01:01:48,137
SHUT DONE THE SPACE SHUTTLE IN

1457
01:01:48,204 --> 01:01:49,806
2011, THE AMERICAN PEOPLE -- I

1458
01:01:49,872 --> 01:01:51,240
WOULD RUN INTO SOMETHING SON THE

1459
01:01:51,307 --> 01:01:52,075
STREET CORNER, AND THEY WOULD

1460
01:01:52,141 --> 01:01:54,577
SAY, OH, I AM SO SORELY THAT OUR

1461
01:01:54,644 --> 01:01:56,779
SPACE PROGRAM IS OVER.

1462
01:01:56,846 --> 01:01:58,714
BECAUSE THEY ASSOCIATED THE

1463
01:01:58,781 --> 01:02:00,516

SPACE PROGRAM WITH ASTRONAUTS

1464

01:02:00,583 --> 01:02:02,985

GOING INTO SPACE.

1465

01:02:03,052 --> 01:02:07,190

NOW, ANYBODY WHO HAS BEEN AWAKEN

1466

01:02:07,256 --> 01:02:10,193

THE LAST FEW MONTHS WITH THE

1467

01:02:10,259 --> 01:02:14,063

JAMES WEBB SPACE TELESCOPE, THEY

1468

01:02:14,130 --> 01:02:16,766

CERTAINLY HAVE ANOTHER ASPECT

1469

01:02:16,833 --> 01:02:20,369

THAT THEY HAVE BEEN RIVETTED TO

1470

01:02:20,436 --> 01:02:22,338

ABOUT WHAT WE ARE DOING IN

1471

01:02:22,405 --> 01:02:26,175

SPACE, AND AS WE GET TO THE

1472

01:02:26,242 --> 01:02:29,145

POINT OF PUTTING HUMAN BEINGS ON

1473

01:02:29,212 --> 01:02:30,046

8.8 MILLION POUNDS OF THRUST

1474

01:02:30,113 --> 01:02:32,882

COMING OFF THE EARTH, I CAN

1475

01:02:32,949 --> 01:02:34,984

GUARANTEE YOU, THAT PEOPLE ARE

1476
01:02:35,051 --> 01:02:37,453
GOING TO START UNDERSTANDING THE

1477
01:02:37,520 --> 01:02:38,721
SPACE PROGRAM AGAIN.

1478
01:02:38,788 --> 01:02:41,557
AND WHEN THE FIRST WOMAN END

1479
01:02:41,624 --> 01:02:45,228
THAT NEXT MAN LAND ON THE MOON

1480
01:02:45,294 --> 01:02:46,629
AND ART THE MISSION 3, I RATHER

1481
01:02:46,696 --> 01:02:48,030
SUSPECT THAT IS GOING TO BE A

1482
01:02:48,097 --> 01:02:55,438
PAGE ONE STORY.

1483
01:02:55,505 --> 01:02:57,373
THE AMERICAN PEOPLE WILL BE

1484
01:02:57,440 --> 01:02:59,075
BACK, UNDERSTANDING WHAT IS

1485
01:02:59,142 --> 01:03:05,481
HAPPENING.

1486
01:03:05,548 --> 01:03:07,216
WHEN YOU TAKE, ALTHOUGH, WE DO

1487
01:03:07,283 --> 01:03:12,255
THESE THINGS WITH WROTE AND

1488
01:03:12,321 --> 01:03:14,323

INSTRUMENT THEN CERTAINLY THE

1489

01:03:14,390 --> 01:03:16,325

ROVER PERSEVERANCE ON MARS THEN

1490

01:03:16,392 --> 01:03:17,660

THE LITTLE HELL LIP COPTER

1491

01:03:17,727 --> 01:03:18,961

CAUGHT THE IMAGINATION.

1492

01:03:19,028 --> 01:03:22,965

BUT YOU PUT A HUMAN BEING THAT

1493

01:03:23,032 --> 01:03:24,167

IS WALK AROUND ON THE SURFACE OF

1494

01:03:24,233 --> 01:03:25,902

THE MAN AND IT TAKES IT A WHOLE

1495

01:03:25,968 --> 01:03:32,975

NEW LEVEL.

1496

01:03:33,042 --> 01:03:33,709

>> GREAT, THANKS.

1497

01:03:33,776 --> 01:03:35,344

THE NEXT QUESTION IS FROM THE

1498

01:03:35,411 --> 01:03:40,216

"WALL STREET JOURNAL."

1499

01:03:40,283 --> 01:03:41,517

REPORTER: HI, THERE.

1500

01:03:41,584 --> 01:03:43,085

ADMINISTRATOR NELSON, YOU WANTED

1501
01:03:43,152 --> 01:03:44,387
TO ASK AFTER ALL THE INVESTMENT

1502
01:03:44,453 --> 01:03:45,855
BE WHERE THE CHALLENGES,

1503
01:03:45,922 --> 01:03:47,290
INSTANCE, NOW HE, THE YEARS OF

1504
01:03:47,356 --> 01:03:49,325
TO WORK GET THIS POINT, WHAT

1505
01:03:49,392 --> 01:03:51,227
KIND OF PRESSURE, YOU KNOW, IS

1506
01:03:51,294 --> 01:03:53,229
ON THE AGENCY TO SORT OF MEET

1507
01:03:53,296 --> 01:03:55,097
MISSION CRITERIA FOR THIS FIRST

1508
01:03:55,164 --> 01:03:57,700
FLIGHT AND KEEP MOVE TOWARD THE

1509
01:03:57,767 --> 01:03:58,901
SECOND AND THIRD MISSION?

1510
01:03:58,968 --> 01:04:06,242
THANKS.

1511
01:04:06,309 --> 01:04:07,877
, THERE IS NO EXTENSION A

1512
01:04:07,944 --> 01:04:09,078
PRESSURE THAT IS GOING TO MAKE

1513
01:04:09,145 --> 01:04:11,247

THIS MISSION GO OR NO GO.

1514

01:04:11,314 --> 01:04:15,251

I MEAN, THIS HAS BEEN TUN THE

1515

01:04:15,318 --> 01:04:17,153

WORKS FOR YEARS.

1516

01:04:17,220 --> 01:04:22,792

IF SOMEWHERE IN YOUR WAS THE

1517

01:04:22,858 --> 01:04:23,492

ALMOST ICATION OF THIS BEING

1518

01:04:23,559 --> 01:04:26,796

MORE EXPENSIVE AND TAKING

1519

01:04:26,862 --> 01:04:33,069

LONGER, WHICH WOULD URGE US TO

1520

01:04:33,135 --> 01:04:35,104

THINK ABOUT THE JAMES WEBB SPACE

1521

01:04:35,171 --> 01:04:35,771

TELESCOPE.

1522

01:04:35,838 --> 01:04:38,708

THE SAME THING.

1523

01:04:38,774 --> 01:04:39,642

BUT LOOK WHAT THE RESULTS ARE

1524

01:04:39,709 --> 01:04:42,678

BECAUSE WE HAD TO DO IT WHEN IT

1525

01:04:42,745 --> 01:04:49,252

WAS RIGHT.

1526
01:04:49,318 --> 01:04:53,889
THERE ARE 200 THINGS ANY WAY TO

1527
01:04:53,956 --> 01:04:55,224
A POINT IN THE UNIVERSE, ONE

1528
01:04:55,291 --> 01:04:57,059
MILLION MILES FROM EAR, ANYONE

1529
01:04:57,126 --> 01:04:59,662
OF THOSE 244 THINGS THAT HAD NOT

1530
01:04:59,729 --> 01:05:01,397
GONE RIGHT, RIGHT WOULD HAVE

1531
01:05:01,464 --> 01:05:02,632
BEEN TUBE CITY FOR THE

1532
01:05:02,698 --> 01:05:05,034
TELESCOPE.

1533
01:05:05,101 --> 01:05:10,439
SAME THING WITH THIS.

1534
01:05:10,506 --> 01:05:14,644
NOW AS WE GET DO IN THE ROAD WE

1535
01:05:14,710 --> 01:05:16,445
ARE DOING DIFFERENT CONTRACTS

1536
01:05:16,512 --> 01:05:18,314
PUTTING MORE EMPHASIS ON

1537
01:05:18,381 --> 01:05:29,825
EFFICIENCY AND WHAT YOU WILL SEE

1538
01:05:29,892 --> 01:05:33,829

IS THE COST IS GOING TO COME

1539

01:05:33,896 --> 01:05:34,263

DOWN.

1540

01:05:34,330 --> 01:05:35,865

YOU ARE AMORTIZING THE

1541

01:05:35,931 --> 01:05:37,366

DEVELOPMENT COST IN THE FIRST

1542

01:05:37,433 --> 01:05:39,368

FEW FLIGHTS.

1543

01:05:39,435 --> 01:05:41,203

OVER TIME, PER FLIGHT, THAT COST

1544

01:05:41,270 --> 01:05:49,045

IS GOING TO COME DOWN, BUT

1545

01:05:49,111 --> 01:05:50,713

REGARDLESS, SPACE IS HART HARD

1546

01:05:50,780 --> 01:05:52,214

WHEN YOU ARE DEVELOPING A WHOLE

1547

01:05:52,281 --> 01:05:53,749

NEW LAUNCH CAPABILITY TO SUPPORT

1548

01:05:53,816 --> 01:05:54,850

HUMAN LIFE AND BRING THEM BACK

1549

01:05:54,917 --> 01:05:58,020

SAFELY, IT IS GOING TO COST SOME

1550

01:05:58,087 --> 01:06:01,691

MACHINE.

1551

01:06:01,757 --> 01:06:03,559

THANKS FOR YOUR IF HE.

1552

01:06:03,626 --> 01:06:04,727

THANKS FOR YOUR QUESTION.

1553

01:06:04,794 --> 01:06:06,062

THANK FOR THE QUESTIONS.

1554

01:06:06,128 --> 01:06:07,463

WE HAVE MORE QUESTIONS THAN WE

1555

01:06:07,530 --> 01:06:09,298

DO TIME TODAY.

1556

01:06:09,365 --> 01:06:11,967

HOWEVER, WE DO HAVE ANOTHER

1557

01:06:12,034 --> 01:06:14,970

BRIEFING ON FRIDAY

1558

01:06:15,037 --> 01:06:17,940

AUGUST 5th AT 11:30! A

1559

01:06:18,007 --> 01:06:19,275

EASTERN TIME FROM NASA JOHNSON

1560

01:06:19,342 --> 01:06:20,710

SPATES CENTER IN HOUSTON AND WE

1561

01:06:20,776 --> 01:06:23,112

LOOK FORWARD TO ANSWERING MORE

1562

01:06:23,179 --> 01:06:24,847

OF YOUR QUESTIONS DURING THE IN

1563

01:06:24,914 --> 01:06:27,917

DEPTH BRIEFING.

1564

01:06:27,983 --> 01:06:30,252

IF YOU DO NEEDS QUESTIONS

1565

01:06:30,319 --> 01:06:30,953

ANSWERED DRIER PRO TIR TO THAT

1566

01:06:31,020 --> 01:06:32,488

BRIEFING PLEASE REACH OUT TO

1567

01:06:32,555 --> 01:06:34,457

RACHEL CRAFT OUR PUBLIC AFFAIRS

1568

01:06:34,523 --> 01:06:36,192

OFFICERS WHO CAN GET ANSWERS TO

1569

01:06:36,258 --> 01:06:37,326

YORE QUESTIONS.

1570

01:06:37,393 --> 01:06:39,762

THEN, TUNE IN ON FRIDAY, AT

1571

01:06:39,829 --> 01:06:42,131

11:30 FOR THAT MISSION TIMELINE

1572

01:06:42,198 --> 01:06:43,566

AND SPACECRAFT OPERATIONS

1573

01:06:43,632 --> 01:06:48,270

BRIEFING WITH US ON NASA TV AND

1574

01:06:48,337 --> 01:06:49,472

NASA. GOV/LIFE YOU CAN OF

1575

01:06:49,538 --> 01:06:50,873

COURSE FOLLOW ALONGING WITH THE

1576

01:06:50,940 --> 01:06:52,475

UPDATES FOR ARTEMIS 1 AND CHECK

1577

01:06:52,541 --> 01:06:54,009

OUT THE LATEST MISSION RESOURCE

1578

01:06:54,076 --> 01:06:55,211

AS WELL.

1579

01:06:55,277 --> 01:06:56,946

INCLUDING THE PRESS KIT AND

1580

01:06:57,012 --> 01:06:58,381

PREFERENCE GUIDE ON NASA'S

1581

01:06:58,447 --> 01:07:00,750

WEBSITES AND THAT URL WHICH WITH

1582

01:07:00,816 --> 01:07:03,185

IS ALL LOWER CASS CASE LETTERS

1583

01:07:03,252 --> 01:07:09,058

AT NASA.GOV WHERE/SPECIALS/

1584

01:07:09,125 --> 01:07:10,226

WHERE/SPECIALS/ARTEMIS-I.