



1
00:00:07,974 --> 00:00:09,042
>> GOOD MORNING.

2
00:00:09,109 --> 00:00:12,545
I AM TABITHA THOMPSON IN

3
00:00:12,612 --> 00:00:15,749
WALLOPS FLIGHT FACILITY IN

4
00:00:15,815 --> 00:00:20,019
RAVA TODAY ORBITAL ATK CRS-8

5
00:00:20,086 --> 00:00:23,623
CARGO IS SCHEDULED TO LAUNCH

6
00:00:23,690 --> 00:00:24,557
7:37 SATURDAY

7
00:00:24,624 --> 00:00:26,292
NOVEMBER 11th FROM

8
00:00:26,359 --> 00:00:27,060
WALLOPS.

9
00:00:27,127 --> 00:00:27,861
LIVE COVERAGE WILL START AT

10
00:00:27,927 --> 00:00:29,929
7:00 ON NASA TELEVISION AND

11
00:00:29,996 --> 00:00:32,599
THE AGENCY'S WEBSITE WHICH

12
00:00:32,665 --> 00:00:34,768
IS NASA. GOV/LIVE UNTIL THE

13
00:00:34,834 --> 00:00:36,102

HERE TO IS CUSS THE STATUS

14

00:00:36,169 --> 00:00:37,604
OF THE LAUNCH OPERATIONS AS

15

00:00:37,670 --> 00:00:40,673
WELL AS RESEARCH

16

00:00:40,740 --> 00:00:41,541
INVESTIGATION ARE DAN

17

00:00:41,608 --> 00:00:42,375
HARTMAN WITH THE

18

00:00:42,442 --> 00:00:43,643
INTERNATIONAL SPACE STATION

19

00:00:43,710 --> 00:00:45,278
PROGRAM AT NASA JOHNSON'S

20

00:00:45,345 --> 00:00:47,981
SPACE CENTER, FRANK, VICE

21

00:00:48,047 --> 00:00:49,115
PRESIDENT AND PHYSICIAN RAL

22

00:00:49,182 --> 00:00:50,383
MANAGER OF ADVANCED PROGRAM

23

00:00:50,450 --> 00:00:57,290
DIVISION AT ORBITALATK AND

24

00:00:57,357 --> 00:00:58,658
CAMILLE ALAIN WITH THE

25

00:00:58,725 --> 00:00:59,926
INTERNATIONAL SPACE STATION

26
00:00:59,993 --> 00:01:01,060
PROGRAM SCIENCE OFFICE AND

27
00:01:01,127 --> 00:01:02,662
ALSO AT JOHNSON SPACE CENTER

28
00:01:02,729 --> 00:01:04,831
AND PHYSICIANLY, JOHN

29
00:01:04,898 --> 00:01:07,000
DICKERSON WHO IS TEST

30
00:01:07,066 --> 00:01:08,868
DIRECTOR AT WALLOPS.

31
00:01:08,935 --> 00:01:10,804
WE'LL BEGIN WITH DAN.

32
00:01:10,870 --> 00:01:12,372
THANKS, TABATHA.

33
00:01:12,439 --> 00:01:13,006
GOOD MORNING, EVERYBODY.

34
00:01:13,072 --> 00:01:14,874
IT IS GREAT TO BE BACK AT

35
00:01:14,941 --> 00:01:16,109
WALLOPS ISLAND.

36
00:01:16,176 --> 00:01:18,812
WE ARE LOOKING FORWARD TO AN

37
00:01:18,878 --> 00:01:22,582
EXCITING MORNING TOMORROW.

38
00:01:22,649 --> 00:01:24,884

WE HAVE IT PACKED FULL OF

39

00:01:24,951 --> 00:01:26,352

CARGO ON THIS MISSION.

40

00:01:26,419 --> 00:01:27,787

7400 POUNDS OF CARGO.

41

00:01:27,854 --> 00:01:29,756

1900 POUNDS OF THAT IN THREE

42

00:01:29,823 --> 00:01:31,591

SEARCH REALM.

43

00:01:31,658 --> 00:01:33,259

PRESENTLY, THREE ACTIVE MID

44

00:01:33,326 --> 00:01:36,830

DECK LOCKERS RECEIVING POWER

45

00:01:36,896 --> 00:01:38,765

UNDEAFS RIGHT NOW IN SUPPORT

46

00:01:38,832 --> 00:01:41,067

OF THE INVESTIGATORS AND WE

47

00:01:41,134 --> 00:01:42,769

WILL TALK A LOT MORE THE

48

00:01:42,836 --> 00:01:44,237

RESEARCH WE PLAN TO CONDUCT

49

00:01:44,304 --> 00:01:45,905

WITH THE CAR GE GOING UP ON

50

00:01:45,972 --> 00:01:46,673

THIS MISSION.

51
00:01:46,739 --> 00:01:47,941
WELL THE LAUNCH TOMORROW,

52
00:01:48,007 --> 00:01:49,375
CRYING US IN APPLAN TO

53
00:01:49,442 --> 00:01:52,178
ARRIVE MONDAY MORNING

54
00:01:52,245 --> 00:01:54,047
STATION SYSTEMS ARE FULLY

55
00:01:54,113 --> 00:01:55,114
OPERATIONALMENT WE HAVE A

56
00:01:55,181 --> 00:01:56,716
FEW MORE CHECKOUTS TO DO

57
00:01:56,783 --> 00:01:59,219
WITH CREW TRAINING BEFORE WE

58
00:01:59,285 --> 00:02:02,989
ACTUALLY CAPTURE CIGNUS.

59
00:02:03,056 --> 00:02:04,524
HALLOW WILL BE THE PRIME

60
00:02:04,591 --> 00:02:07,527
OPERATOR AND CAPTURE CIGNUS

61
00:02:07,594 --> 00:02:10,897
SUNDAY MORNING AND BRING

62
00:02:10,964 --> 00:02:12,499
INTO BERTHING PORT AND WILL

63
00:02:12,565 --> 00:02:14,100

BE DONE I HAVE YA GROUND

64

00:02:14,167 --> 00:02:15,235
CONTROL OPERATIONS.

65

00:02:15,301 --> 00:02:18,404
HATCHES WILL BE OPEN THE

66

00:02:18,471 --> 00:02:19,472
FOLLOWING DAY.

67

00:02:19,539 --> 00:02:21,140
AND THEN, WE WILL BE ABLE TO

68

00:02:21,207 --> 00:02:24,043
START UNLOADING THE CARGO

69

00:02:24,110 --> 00:02:24,777
IMMEDIATELY.

70

00:02:24,844 --> 00:02:25,678
WITH OUR CREW OF FOUR, WE

71

00:02:25,745 --> 00:02:27,914
PLAN TO GET THE CARGO OFF

72

00:02:27,981 --> 00:02:29,549
QUICKLY AND THEN, FOR THE

73

00:02:29,616 --> 00:02:31,317
FIRST TIME, WE PLAN TO

74

00:02:31,384 --> 00:02:32,819
RELOCATE ONE OF THE PAYLOADS

75

00:02:32,886 --> 00:02:36,489
THAT IS PRESENTLY OPERATING

76
00:02:36,556 --> 00:02:37,924
ONBOARD AND ACTUALLY DO WHAT

77
00:02:37,991 --> 00:02:50,703
WE CALL EXTENDED LABORATORY

78
00:02:50,770 --> 00:02:52,272
OPERATIONS INSIDE OF THIS

79
00:02:52,338 --> 00:03:01,948
INSIDE OF THE MODULES ARE

80
00:03:02,015 --> 00:03:02,949
AND INSIDE.

81
00:03:03,016 --> 00:03:05,418
IT IL BE THROUGH DECEMBER

82
00:03:05,485 --> 00:03:06,052
THIRD.

83
00:03:06,119 --> 00:03:12,458
WHEN WE ANTICIPATE WE WILL

84
00:03:12,525 --> 00:03:13,626
HAVE PACKED FULL OF CAR

85
00:03:13,693 --> 00:03:15,728
BEAU.

86
00:03:15,795 --> 00:03:18,031
I CANNOT EMPHASIZE THAT OF

87
00:03:18,097 --> 00:03:18,665
ENOUGH.

88
00:03:18,731 --> 00:03:19,666

WE HAVE A CREW OF SIX IN

89

00:03:19,732 --> 00:03:20,166

TOTAL.

90

00:03:20,233 --> 00:03:22,068

WE DO GENERATE A LOT OF

91

00:03:22,135 --> 00:03:26,239

TRASH VIA FOOD OR YOU KNOW

92

00:03:26,306 --> 00:03:27,707

SOME FOAM THAT FLY-IN.

93

00:03:27,774 --> 00:03:29,108

REMOVING THE TRASH OFFERS

94

00:03:29,175 --> 00:03:31,678

THE TEAM A TREMENDOUS AMOUNT

95

00:03:31,744 --> 00:03:32,845

OF FLEXIBILITY THE

96

00:03:32,912 --> 00:03:34,447

CREWMEMBERS OPERATE ONBOARD

97

00:03:34,514 --> 00:03:35,448

THE INTERNATIONAL SPACE

98

00:03:35,515 --> 00:03:38,518

STATION SO WE LOOK FORWARD

99

00:03:38,585 --> 00:03:40,887

TO A CYGNUS VEHICLE.

100

00:03:40,954 --> 00:03:42,288

WE'RE ON THE WAY FOR MUCH

101
00:03:42,355 --> 00:03:45,925
MORE FLEXIBLE OPERATIONS, SO

102
00:03:45,992 --> 00:03:49,028
CYGNUS OFFERS TREMENDOUS

103
00:03:49,095 --> 00:03:50,763
CAPABILITY FOR THAT.

104
00:03:50,830 --> 00:03:52,599
WE'RE IN GREAT SHAPE.

105
00:03:52,665 --> 00:03:53,533
THIS IS THE FIFTH MISSION OF

106
00:03:53,600 --> 00:03:55,101
THE YEAR.

107
00:03:55,168 --> 00:03:57,804
WE HAVE FOOD, WATER, CARGO

108
00:03:57,870 --> 00:03:59,405
SUPPLIES TO LAST US THROUGH

109
00:03:59,472 --> 00:04:01,641
MIDSUMMER OF NEXT YEAR SO

110
00:04:01,708 --> 00:04:02,942
GREAT SHAPE.

111
00:04:03,009 --> 00:04:06,112
IF WE LOOK FORWARD AGAIN, I

112
00:04:06,179 --> 00:04:10,116
MENTIONED CYGNUS RELEASED ON

113
00:04:10,183 --> 00:04:14,153

DECEMBER 4th AND UNVERSE

114

00:04:14,220 --> 00:04:17,123

TRIT THE NODE ON DECEMBER 3

115

00:04:17,190 --> 00:04:22,061

READY AND REMOVE IT AND

116

00:04:22,128 --> 00:04:23,363

HARBERT AND GO TO XEN ETHAN

117

00:04:23,429 --> 00:04:25,865

PLAN TO DO GPS CHECKOUTS

118

00:04:25,932 --> 00:04:27,266

THAT LOCATION AND GIVE US A

119

00:04:27,333 --> 00:04:28,501

BETTER CHARACTERIZATION OF

120

00:04:28,568 --> 00:04:31,170

THE GPS SYSTEM FOR

121

00:04:31,237 --> 00:04:32,138

COMMERCIAL CREW VEHICLES

122

00:04:32,205 --> 00:04:33,640

START FLYING AND HAVE THE

123

00:04:33,706 --> 00:04:34,774

VEHICLES MOUNTED THAT

124

00:04:34,841 --> 00:04:35,908

LOCATION OR DOCKED THAT

125

00:04:35,975 --> 00:04:37,510

LOCATION AND WE WANT TO GET

126
00:04:37,577 --> 00:04:40,580
A LITTLE BIT MORE CHARACTER

127
00:04:40,647 --> 00:04:41,581
EYEZATION OF THE FORMER APES

128
00:04:41,648 --> 00:04:42,849
DURING THAT OPERATION.

129
00:04:42,915 --> 00:04:46,919
SO AGAIN, THAT WILL, THAT

130
00:04:46,986 --> 00:04:51,958
WILL HAVE US RELEASE CYGNUS

131
00:04:52,025 --> 00:04:53,526
ON DECEMBER 49th WE PLAN

132
00:04:53,593 --> 00:04:55,395
TO LUNCH OUT OF KFC SO WE

133
00:04:55,461 --> 00:04:59,666
HAVE A RELEASE AND WE HAVE A

134
00:04:59,732 --> 00:05:01,734
BERTHING ON THE SAME DID A

135
00:05:01,801 --> 00:05:03,036
DAY SO WE ARE LOOKING

136
00:05:03,102 --> 00:05:05,805
FORWARD TO THAT.

137
00:05:05,872 --> 00:05:08,975
51S WITH RANDY, PAOLO AND

138
00:05:09,042 --> 00:05:11,077

SERGEI PLAN TO RETURN ON

139

00:05:11,144 --> 00:05:12,178

DECEMBER 16th THEN WE

140

00:05:12,245 --> 00:05:13,713

HAVE A PRETTY QUICK TURN JN

141

00:05:13,780 --> 00:05:15,615

FOR THE NEXT CREW COMING

142

00:05:15,682 --> 00:05:16,983

BACK UP THE STATION TO GET

143

00:05:17,050 --> 00:05:20,053

US BANG TO THE CREW OF 6 AP

144

00:05:20,119 --> 00:05:22,021

THAT IS ON DECEMBER 17th

145

00:05:22,088 --> 00:05:24,323

LATER ON IN JANUARY WE HAVE

146

00:05:24,390 --> 00:05:25,858

TWO EVA'S PLANNED AND A LOT

147

00:05:25,925 --> 00:05:27,293

MORE DISCUSSIONS ON THAT AS

148

00:05:27,360 --> 00:05:28,828

THAT GETS CLOSERMENT YOU

149

00:05:28,895 --> 00:05:32,565

KNOW THIS WE HAD SSR HAS TWO

150

00:05:32,632 --> 00:05:34,267

LARCHING END EFFECTORS ON

151
00:05:34,333 --> 00:05:35,301
EITHER END.

152
00:05:35,368 --> 00:05:37,070
ONE OF THE END EFFECTORS ON

153
00:05:37,136 --> 00:05:38,604
A SERIES OF EVA'S.

154
00:05:38,671 --> 00:05:41,607
WE PLAN TO GET THE OTHER END

155
00:05:41,674 --> 00:05:43,242
EFFECTOR IN LATE JANUARY.

156
00:05:43,309 --> 00:05:45,144
WANT TO GIVE THE A HAD

157
00:05:45,211 --> 00:05:46,446
THISSIAN SPACE AGENCY A LOT

158
00:05:46,512 --> 00:05:48,581
OF KUDO FOR THE SVSR.

159
00:05:48,648 --> 00:05:50,249
THAT THING HAS BEEN IN

160
00:05:50,316 --> 00:05:52,418
OPERATION FOR NEARLY 15

161
00:05:52,485 --> 00:05:53,886
YEARS AND SO IT IS READY FOR

162
00:05:53,953 --> 00:05:55,655
A CHANGE-UP ON THOSE

163
00:05:55,722 --> 00:05:56,956

COMPONENTS BUT YOU KNOW, IT

164

00:05:57,023 --> 00:05:58,257
WENT THROUGH ALL OF THE

165

00:05:58,324 --> 00:05:59,992
MAJOR ASSEMBLY TASKS TO EVEN

166

00:06:00,059 --> 00:06:01,527
BUILD THE INTERNATIONAL

167

00:06:01,594 --> 00:06:03,096
SPACE STATION, SO TREMENDOUS

168

00:06:03,162 --> 00:06:05,031
SUCCESS ON THE ARM.

169

00:06:05,098 --> 00:06:08,034
WE ARE LOOK GET THE SECOND

170

00:06:08,101 --> 00:06:10,002
OF THE LATCH END FEKORS

171

00:06:10,069 --> 00:06:10,670
REPLACED.

172

00:06:10,737 --> 00:06:11,204
WITH THAT.

173

00:06:11,270 --> 00:06:12,505
IS CYST READY TO GO.

174

00:06:12,572 --> 00:06:14,040
I AM SURE FRANK AND KURT

175

00:06:14,107 --> 00:06:15,308
WILL TALK ABOUT WHERE THEY

176
00:06:15,374 --> 00:06:16,809
STAND AS FAR AS VEHICLE

177
00:06:16,876 --> 00:06:17,477
READINESS.

178
00:06:17,543 --> 00:06:19,078
I CONDITION TELL YOU, OUR

179
00:06:19,145 --> 00:06:20,546
CREW ONBOARD IS LOOKING FOR

180
00:06:20,613 --> 00:06:21,948
WORD TO A LAUNCH AND ANXIOUS

181
00:06:22,014 --> 00:06:23,316
TO GET INSIDE TO GET THE

182
00:06:23,382 --> 00:06:27,286
CARGO AND THE BOODIES OUT.

183
00:06:27,353 --> 00:06:28,654
TURN IT OVER TO FRANK.

184
00:06:28,721 --> 00:06:29,689
>> THANKS VERY MUCH, DAN

185
00:06:29,756 --> 00:06:30,923
SNIP IS GREAT TO BE BACK

186
00:06:30,990 --> 00:06:32,158
HERE AT WALLOPS AND

187
00:06:32,225 --> 00:06:33,459
ESPECIALLY TO BE AT THE

188
00:06:33,526 --> 00:06:34,393

TABLE WITH OUR PARTNERS ON

189

00:06:34,460 --> 00:06:35,061

THIS MISSION.

190

00:06:35,128 --> 00:06:36,496

I WANT DO WANT TO FIRST

191

00:06:36,562 --> 00:06:39,398

THOUGH SAY HAPPY BIRTHDAY.

192

00:06:39,465 --> 00:06:40,466

242nd BIRTHDAY TO THE

193

00:06:40,533 --> 00:06:42,135

UNITED STATES MARINE CORPS.

194

00:06:42,201 --> 00:06:43,302

CONGRATULATIONS TO EVERYONE

195

00:06:43,369 --> 00:06:44,303

OUT THERE.

196

00:06:44,370 --> 00:06:46,205

ALSO, I WANT TO SAY HAPPY

197

00:06:46,272 --> 00:06:47,507

VETERANS DIE ALL THE

198

00:06:47,573 --> 00:06:48,808

VETERANS OUT THERE.

199

00:06:48,875 --> 00:06:49,742

WE HAVE THE HONOR AROUND

200

00:06:49,809 --> 00:06:50,810

PRIVILEGE OF WORKING WITH

201
00:06:50,877 --> 00:06:52,311
MANY VETERANS IS PUSHILY IN

202
00:06:52,378 --> 00:06:52,812
OUR BUSINESS.

203
00:06:52,879 --> 00:06:54,213
THEY ARE SPECIAL PEOPLE AND

204
00:06:54,280 --> 00:06:55,648
WE THANK THEM VERY MUCH FOR

205
00:06:55,715 --> 00:06:57,183
PROTECT OUR NATION ALL OF

206
00:06:57,250 --> 00:06:58,751
THESE YEARS.

207
00:06:58,818 --> 00:07:01,954
SO WE ALSO WOULD LIKE TO

208
00:07:02,021 --> 00:07:06,292
START TO GET CYGNUS LAUNCHED

209
00:07:06,359 --> 00:07:09,028
AGAIN OFF THE SOYUZ ROCKET.

210
00:07:09,095 --> 00:07:10,463
WE WANT TO THANK THE

211
00:07:10,530 --> 00:07:11,731
BROTHERS AND SISTER ON THE

212
00:07:11,798 --> 00:07:13,533
SOYUZ PROGRAM, THE NASA

213
00:07:13,599 --> 00:07:14,700

CUSTOMERS, CERTAINLY THE

214

00:07:14,767 --> 00:07:16,803

TEAM HERE AT NASA WALLEPS

215

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

WHO TON DO A GREAT JOB

216

00:07:18,271 --> 00:07:19,639

GETTING US ARE FOR THE LUNCH

217

00:07:19,705 --> 00:07:20,907

ADDS WELL AS THE TEAM FROM

218

00:07:20,973 --> 00:07:22,842

THE MID-ATLANTIC SPACE PORT

219

00:07:22,909 --> 00:07:24,744

IN VIRGINIA TODAY FOR THEIR

220

00:07:24,811 --> 00:07:25,945

SUPPORT OF THE MISSION.

221

00:07:26,012 --> 00:07:27,647

A GREAT MISSION TOMORROW.

222

00:07:27,713 --> 00:07:29,582

WE HAVE A LOT OF CARGO TO

223

00:07:29,649 --> 00:07:31,150

DELIVER, CRUISE SUPPLIES,

224

00:07:31,217 --> 00:07:33,953

EQUIPMENT, OF COURSE, THOSE

225

00:07:34,020 --> 00:07:34,987

SCIENTIFIC EXPERTS SO LET'S

226

00:07:35,054 --> 00:07:35,822

TAKE LOOK AT THE VIDEO

227

00:07:35,888 --> 00:07:39,559

SHOWING THE ROSS SESSION OF

228

00:07:39,625 --> 00:07:40,660

CYGNUS GETTING READY FOR

229

00:07:40,726 --> 00:07:51,137

LAUNCH.

230

00:07:51,204 --> 00:07:52,672

IT WAS SHEEPED FLOOR BY

231

00:07:52,738 --> 00:07:53,940

TRUCK TO WALLOPS.

232

00:07:54,006 --> 00:07:56,242

HERE YOU CAN SEE THE

233

00:07:56,309 --> 00:07:57,009

PRESSUREIDE CAR BE MODULE

234

00:07:57,076 --> 00:07:59,011

WHICH GETS CLIFF ARE

235

00:07:59,078 --> 00:07:59,979

DELIVERED DRIKLY ARE THE

236

00:08:00,046 --> 00:08:00,913

SUPPLIER IN ITALY.

237

00:08:00,980 --> 00:08:02,215

HERE AFTER WE LOADED THE

238

00:08:02,281 --> 00:08:04,684

INITIAL LOAD OF CARGO.

239

00:08:04,750 --> 00:08:06,018

WE PUT THE THEM TOGETHER.

240

00:08:06,085 --> 00:08:07,386

THAT IS WHEN WE HAVE A

241

00:08:07,453 --> 00:08:08,054

CYGNUS.

242

00:08:08,120 --> 00:08:09,922

WE GET THE SPACECRAFT READY

243

00:08:09,989 --> 00:08:12,625

FROM MOVING FROM THE H100

244

00:08:12,692 --> 00:08:15,828

WHERE IT IS FUELED AND

245

00:08:15,895 --> 00:08:17,129

INSTALLED AND EVENTUALLY

246

00:08:17,196 --> 00:08:19,999

WE'LL GET MOVED OVER TO THE

247

00:08:20,066 --> 00:08:21,100

SPACECRAFT WILL GET REMOVED

248

00:08:21,167 --> 00:08:23,603

FROM THE SHIPPING CONTAINER

249

00:08:23,669 --> 00:08:25,238

ROTATED OVER TO THE

250

00:08:25,304 --> 00:08:27,240

HORIZONTAL POSITION AND IT

251
00:08:27,306 --> 00:08:30,343
WILL GET TO THE LAUNCH

252
00:08:30,409 --> 00:08:31,244
VEHICLE.

253
00:08:31,310 --> 00:08:33,145
ONCE WE ARE MATED, WE WILL

254
00:08:33,212 --> 00:08:35,114
PUT IN FINAL CARGO LED ON

255
00:08:35,181 --> 00:08:36,983
THIS MISSION, AS DAN SAID.

256
00:08:37,049 --> 00:08:38,951
WE'RE LAUNCHING 700 POUNDS

257
00:08:39,018 --> 00:08:40,920
OF CAR KNOW SPACE STATION.

258
00:08:40,987 --> 00:08:42,788
AMONG THAT GARGO IS A

259
00:08:42,855 --> 00:08:45,024
STUDENT EXPERIMENT SPONSORED

260
00:08:45,091 --> 00:08:48,194
BY ORBITAL ATK WITH A

261
00:08:48,261 --> 00:08:49,328
NONPROFIT COMPANY BASED

262
00:08:49,395 --> 00:08:50,496
RIGHT HERE IN THE

263
00:08:50,563 --> 00:08:51,898

COMMONWEALTH OF VIRGINIA SO

264

00:08:51,964 --> 00:08:53,032

THAT IS VERY, VERY EXCITING

265

00:08:53,099 --> 00:08:54,433

FOR US TO TAKE PART IN.

266

00:08:54,500 --> 00:08:57,136

HERE YOU CAN SEE THE LAUNCH

267

00:08:57,203 --> 00:09:00,006

VEHICLE GETTING MOVED TO

268

00:09:00,072 --> 00:09:01,173

ENCAPSULATE THE SPACECRAFT.

269

00:09:01,240 --> 00:09:02,508

OF COURSE, WE SAY OUR

270

00:09:02,575 --> 00:09:03,809

TEMPORARY GOOD-BYES TO

271

00:09:03,876 --> 00:09:05,011

CYGNUS BECAUSE WE ARE FOG

272

00:09:05,077 --> 00:09:06,979

SEE IT AGAIN ONCE IT

273

00:09:07,046 --> 00:09:08,748

APPROACHES THE STATION

274

00:09:08,814 --> 00:09:09,582

SYSTEM HERE YOU CAN SEE

275

00:09:09,649 --> 00:09:11,083

AFTER TEN MINUTES, THE

276

00:09:11,150 --> 00:09:12,451
SPACECRAFT WILL BEGIN THE

277

00:09:12,518 --> 00:09:14,053
ROSS SELFS DEPLOYING WHICH

278

00:09:14,120 --> 00:09:16,155
ARE BUILT BUY OUR FA SILL RY

279

00:09:16,222 --> 00:09:17,623
TY IN CALIFORNIA.

280

00:09:17,690 --> 00:09:20,259
THEN, ONCE WE HAVE DONE OUR

281

00:09:20,326 --> 00:09:21,494
RAISING, WE'LL PHASE WITH

282

00:09:21,560 --> 00:09:22,728
THE SPACE STATION AND WE'LL

283

00:09:22,795 --> 00:09:24,030
START THES WERE SELFS

284

00:09:24,096 --> 00:09:25,264
MANEUVERING THE SPACECRAFT

285

00:09:25,331 --> 00:09:27,566
UNDERHEATH THE SPACE STATION

286

00:09:27,633 --> 00:09:30,002
FOR THE RENDEZVOUS AND

287

00:09:30,069 --> 00:09:31,137
EVENNUAL BERTHING.

288

00:09:31,203 --> 00:09:32,438

THE SPACE STATION IS

289

00:09:32,505 --> 00:09:34,106
CONTROLLED IN DULLES,

290

00:09:34,173 --> 00:09:35,374
VIRGINIA AND MONITORED

291

00:09:35,441 --> 00:09:36,509
EXTREMELY CLOSELY BY THE

292

00:09:36,575 --> 00:09:38,978
FRIENDS AT SASS SA AND ISS

293

00:09:39,045 --> 00:09:40,313
MISSION CONTROL CENTER IN

294

00:09:40,379 --> 00:09:40,846
HOUSTON.

295

00:09:40,913 --> 00:09:42,248
THEY KEEP TRACK OF IT EVERY

296

00:09:42,315 --> 00:09:43,115
STEP OF THE WAY.

297

00:09:43,182 --> 00:09:44,784
WE ARE TEN MINUTES BELOW AND

298

00:09:44,850 --> 00:09:46,552
THE ARM WILL COME OUT AND

299

00:09:46,619 --> 00:09:47,153
GRAPPLE US.

300

00:09:47,219 --> 00:09:48,254
HERE YOU CAN SEE THE ARM

301
00:09:48,321 --> 00:09:49,488
MANEUVERING US WHERE WE ARE

302
00:09:49,555 --> 00:09:51,357
ACTUALLY DOCKED TO THE SPACE

303
00:09:51,424 --> 00:09:51,824
STATION.

304
00:09:51,891 --> 00:09:53,359
ONCE THAT HAPPEN, THE SAFETY

305
00:09:53,426 --> 00:09:54,994
CHECKS ARE COMPLETED.

306
00:09:55,061 --> 00:09:55,561
WE'LL OPEN THE HATCH.

307
00:09:55,628 --> 00:09:56,629
THE CREW WILL OPEN THE

308
00:09:56,696 --> 00:09:57,730
HATCH.

309
00:09:57,797 --> 00:09:59,198
THE CREW WILL BEGIN

310
00:09:59,265 --> 00:10:00,833
UNLOADING THE CAR GE AND

311
00:10:00,900 --> 00:10:02,335
START REFILLING THE MODULE

312
00:10:02,401 --> 00:10:04,637
WITH TRASH INCLUDING, THEN,

313
00:10:04,704 --> 00:10:05,938

ALSO, TAKE PART IN THE

314

00:10:06,005 --> 00:10:07,940

TANGLE LAB EXPERIMENT.

315

00:10:08,007 --> 00:10:09,141

ONCE WE'RE DONE, WE'LL GET

316

00:10:09,208 --> 00:10:10,109

UNBERTHEDDED FROM THE

317

00:10:10,176 --> 00:10:11,277

STATION, PULLED A, RELEASE

318

00:10:11,344 --> 00:10:12,745

THIS THE ARM, WE'LL BEGAN

319

00:10:12,812 --> 00:10:15,014

THE NEXT PART OF THE MISSION

320

00:10:15,081 --> 00:10:17,483

ARE WE RELEASE SEVERAL SET

321

00:10:17,550 --> 00:10:18,951

INTERESTS THE DEPLOYER ON

322

00:10:19,018 --> 00:10:23,089

THE RUT SIDE OF CYGNUS.

323

00:10:23,155 --> 00:10:24,623

WE HAVE 14 FLYING THIS TIME

324

00:10:24,690 --> 00:10:28,027

WHICH IS A RECORD FOR CYGNUS

325

00:10:28,094 --> 00:10:29,729

AND THEN WE'LL COMPLETE THE

326
00:10:29,795 --> 00:10:30,129
MISSION.

327
00:10:30,196 --> 00:10:31,530
I WITH LIKE TO TAKE THIS

328
00:10:31,597 --> 00:10:32,999
MOMENT TO EXPRESS HOW PROUD

329
00:10:33,065 --> 00:10:34,633
WE ARE TO NAME THIS MISSION

330
00:10:34,700 --> 00:10:38,537
IN HONOR OF A VETERAN OF ONE

331
00:10:38,604 --> 00:10:40,039
GEMINI MISSION AND TWO

332
00:10:40,106 --> 00:10:41,540
APOLLO MISSIONS AS WELL AS

333
00:10:41,607 --> 00:10:42,742
BOEING THE LAST HUMAN TO

334
00:10:42,808 --> 00:10:44,276
HAVE HIS FOOT ON THE SURFACE

335
00:10:44,343 --> 00:10:44,844
OF THE MOON.

336
00:10:44,910 --> 00:10:46,212
HE WAS RULE TO LAY PIONEER

337
00:10:46,278 --> 00:10:48,748
FOR AMERICA'S SPACE PROGRAM

338
00:10:48,814 --> 00:10:50,149

AND ACTUALLY ONE OF THE

339

00:10:50,216 --> 00:10:52,418

EARLY SUPPORTERS AS ORBITAL

340

00:10:52,485 --> 00:10:53,686

SCIENCES CORPORATION CAME

341

00:10:53,753 --> 00:10:55,554

INTO EXISTENCE SO WE'RE

342

00:10:55,621 --> 00:10:56,922

EXTREMELY PROUD AND HONORED

343

00:10:56,989 --> 00:10:58,124

TO BE ABLE TO NAME THE

344

00:10:58,190 --> 00:10:59,492

SPACECRAFT.

345

00:10:59,558 --> 00:11:01,027

SO WE'RE ARE EXCITED NOR

346

00:11:01,093 --> 00:11:01,360

MISSION.

347

00:11:01,427 --> 00:11:02,528

IT IS TOOK BOUTFUL DAY

348

00:11:02,595 --> 00:11:03,429

TOMORROW MORNING.

349

00:11:03,496 --> 00:11:06,599

I THINK THE ENTIRE TEAM IS

350

00:11:06,665 --> 00:11:07,366

RAILROADED.

351
00:11:07,433 --> 00:11:08,000
THE CYGNUS TEAM IS VERY

352
00:11:08,067 --> 00:11:09,068
READY AND WE LOOK FOR TOWARD

353
00:11:09,135 --> 00:11:11,904
A GREAT DAY.

354
00:11:11,971 --> 00:11:12,838
WITH THAT.

355
00:11:12,905 --> 00:11:14,106
>> OK, THANK YOU, PRANK.

356
00:11:14,173 --> 00:11:15,408
THAT YOU FOR BEING HERE.

357
00:11:15,474 --> 00:11:17,443
ON BE HALF OF THE ENTIRE

358
00:11:17,510 --> 00:11:18,177
LAUNCH TEAM.

359
00:11:18,244 --> 00:11:19,245
HE WE'RE EXCITED TO BE BACK

360
00:11:19,311 --> 00:11:20,413
HERE AT WALLOPS WITH OUR

361
00:11:20,479 --> 00:11:21,680
NASA AND VIRGINIA SPACE

362
00:11:21,747 --> 00:11:22,848
PARTNERS.

363
00:11:22,915 --> 00:11:24,650

I WOULD LIKE TO RECOGNIZE

364

00:11:24,717 --> 00:11:27,019

DILL AND THE REST OF THE MID

365

00:11:27,086 --> 00:11:29,021

AT LAP TICK SPACE TEAM FROM

366

00:11:29,088 --> 00:11:30,289

VIRGINIA SPACE TO WHO PRIT

367

00:11:30,356 --> 00:11:32,258

AND MAINTAIN PAD 0 FOR US

368

00:11:32,324 --> 00:11:34,126

AND HAVE DONE AN OUTSTANDING

369

00:11:34,193 --> 00:11:35,494

JOB AND IN THE END, I WOULD

370

00:11:35,561 --> 00:11:39,198

LIKE TO RECOGNIZEYON

371

00:11:39,265 --> 00:11:40,399

DECKERSON, JEFF REDDISH AND

372

00:11:40,466 --> 00:11:41,634

THE REST OF THE WALLOPS

373

00:11:41,700 --> 00:11:43,135

RANGE TEAMABLE TO THE

374

00:11:43,202 --> 00:11:44,670

OUTSTANDING SUPPORT WE HAVE

375

00:11:44,737 --> 00:11:45,704

SEEN IN PREPARING FOR THE

376
00:11:45,771 --> 00:11:46,305
LARCHES.

377
00:11:46,372 --> 00:11:47,339
SO THANK YOU ALL FOR HELPING

378
00:11:47,406 --> 00:11:50,076
US GET THIS POINT.

379
00:11:50,142 --> 00:11:51,243
I RECOGNIZE SOME PA

380
00:11:51,310 --> 00:11:52,378
MILLIONIER FACES HERE.

381
00:11:52,445 --> 00:11:53,612
MANY HAVE BEEN HERE LAST

382
00:11:53,679 --> 00:11:54,580
FALL FOR THE MISSION.

383
00:11:54,647 --> 00:11:55,614
JUST A WORD WITH THAT.

384
00:11:55,681 --> 00:11:57,216
THE MISSION WAS THE FIRST

385
00:11:57,283 --> 00:12:01,320
FLIGHT OF OUR ENTIRE 230

386
00:12:01,387 --> 00:12:02,354
CONFIGURATION FEATURING

387
00:12:02,421 --> 00:12:03,022
ENGINE ON THOSE FIRST STAGE

388
00:12:03,089 --> 00:12:04,423

AND THAT LIGHT WAS

389

00:12:04,490 --> 00:12:07,093

SUCCESSFUL AND WE TOOK ALL

390

00:12:07,159 --> 00:12:08,494

THE DAT WE COLLECTED IN THE

391

00:12:08,561 --> 00:12:09,728

INDIVIDUAL GROW THE LAUNCH

392

00:12:09,795 --> 00:12:12,865

AND PERFORMED A DATA

393

00:12:12,932 --> 00:12:13,566

REVIEW.

394

00:12:13,632 --> 00:12:16,202

WE FOUND NO IN FLIGHT

395

00:12:16,268 --> 00:12:16,969

ANOMALIES.

396

00:12:17,036 --> 00:12:17,937

WAS CLEAN MISSION AND WE ARE

397

00:12:18,003 --> 00:12:19,939

EXCITED ABOUT THE ENTIRE

398

00:12:20,005 --> 00:12:20,406

SOYUZ.

399

00:12:20,473 --> 00:12:21,307

THAT IS THE SAME ROCKET

400

00:12:21,373 --> 00:12:23,109

WE'LL BE PLYING TOMORROW ON

401
00:12:23,175 --> 00:12:27,813
THE MISSION.

402
00:12:27,880 --> 00:12:29,482
A NOTE ABOUT PRELAUNCHING

403
00:12:29,548 --> 00:12:30,249
PROCESSING.

404
00:12:30,316 --> 00:12:32,017
OUR TEAM DOWN HERE, WE HAVE

405
00:12:32,084 --> 00:12:33,886
A STAFF OF 35 HE'LL FOLKS

406
00:12:33,953 --> 00:12:35,354
WHO WORKED REALLY HARD TO

407
00:12:35,421 --> 00:12:36,422
GET READY.

408
00:12:36,489 --> 00:12:37,756
SINCE THEN WE HAVE BEEN

409
00:12:37,823 --> 00:12:38,991
MAINTAINING READINESS FOR

410
00:12:39,058 --> 00:12:40,793
WHENEVER NASA NEEDED US.

411
00:12:40,860 --> 00:12:42,094
CYGNUS CAME OVER TOLL THE

412
00:12:42,161 --> 00:12:43,162
SET ON THE 27th OF

413
00:12:43,229 --> 00:12:44,630

OCTOBER FOLLOWED BY ROTATION

414

00:12:44,697 --> 00:12:46,765
OF ENTIRETIES.

415

00:12:46,832 --> 00:12:47,800
THE FINAL CARGO LOAD WAS

416

00:12:47,867 --> 00:12:48,667
COMPLETED JUST EARLIER THIS

417

00:12:48,734 --> 00:12:49,902
WEEK ON THE 7th.

418

00:12:49,969 --> 00:12:51,370
FOLLOWED BY IN STALITION,

419

00:12:51,437 --> 00:12:52,938
THEN BE ROLLED FOURTH THE

420

00:12:53,005 --> 00:12:53,706
PAD EARLY YESTERDAY

421

00:12:53,772 --> 00:12:54,573
MORNING.

422

00:12:54,640 --> 00:12:56,008
SO SINCE THEN, WE HAVE

423

00:12:56,075 --> 00:12:56,909
ATTACHED THE PAD.

424

00:12:56,976 --> 00:12:59,044
WE HAVE GONE VERTICAL.

425

00:12:59,111 --> 00:12:59,745
JUST THIS MORNING.

426

00:12:59,812 --> 00:13:02,047

WE EXECUTED THE MAJOR

427

00:13:02,114 --> 00:13:03,215

COMBINED SYSTEMS TEST.

428

00:13:03,282 --> 00:13:05,184

WE TURN ON THE EMITTERS FROM

429

00:13:05,251 --> 00:13:06,652

THE ROCK CAN HE AND FER FY

430

00:13:06,719 --> 00:13:08,387

THE ROCKET, THE PADS AND THE

431

00:13:08,454 --> 00:13:08,821

RANGE.

432

00:13:08,888 --> 00:13:10,055

THAT IS ALL COMPLETE AND

433

00:13:10,122 --> 00:13:11,056

LOOKED REALLY GOOD.

434

00:13:11,123 --> 00:13:12,391

THERE IS ONE ISSUE WE'RE

435

00:13:12,458 --> 00:13:14,760

WORKING ON THE PADS.

436

00:13:14,827 --> 00:13:16,695

THERE IS REG LITTER ON THE

437

00:13:16,762 --> 00:13:17,730

GROUND SIDE OF THE

438

00:13:17,796 --> 00:13:18,230

SUPPLIES.

439

00:13:18,297 --> 00:13:20,966

IT SUPPLIES NITROGEN FOR THE

440

00:13:21,033 --> 00:13:22,334

SYSTEM THAT IS BEING SLOPPED

441

00:13:22,401 --> 00:13:22,601

OUT.

442

00:13:22,668 --> 00:13:23,536

WE EXPECT THAT TO BE

443

00:13:23,602 --> 00:13:25,137

FINISHED THIS AFTERNOON.

444

00:13:25,204 --> 00:13:27,239

FOR LAUNCH DATE, THE ENTIRE

445

00:13:27,306 --> 00:13:29,008

TEAM WILL ARRIVE OUT THE

446

00:13:29,074 --> 00:13:29,975

CONTROL CENTERS.

447

00:13:30,042 --> 00:13:32,011

THERE IS A COUPLE OF CRONE

448

00:13:32,077 --> 00:13:33,579

CENTERS WE USE AT 1:00 A.M.

449

00:13:33,646 --> 00:13:35,147

THEN EXECUTE A COUNTDOWN

450

00:13:35,214 --> 00:13:37,216

WHICH WILL START AT

451
00:13:37,283 --> 00:13:40,052
1:22 A.M. FUEL LOADING WILL

452
00:13:40,119 --> 00:13:41,353
BEGIN 1 POINT A HOURS BEFORE

453
00:13:41,420 --> 00:13:41,654
LARCH.

454
00:13:41,720 --> 00:13:43,622
IT WILL BE LOADING

455
00:13:43,689 --> 00:13:44,924
SIMULTANEOUSLY LOADING

456
00:13:44,990 --> 00:13:46,926
LIQUID OXYGEN INTO THE STAGE

457
00:13:46,992 --> 00:13:47,493
ONE TANK.

458
00:13:47,560 --> 00:13:48,894
THE ENGINES ARE NIGHTED

459
00:13:48,961 --> 00:13:50,062
BETWEEN THE INTERMEDIATE

460
00:13:50,129 --> 00:13:52,565
POWER LEVEL AFTER AUTO

461
00:13:52,631 --> 00:13:53,966
MATTED HEALTH CHECK AND

462
00:13:54,033 --> 00:13:54,867
PERFORMED ON EACH ENGINE.

463
00:13:54,934 --> 00:13:56,735

A THROTTLE OF FULL POWER AND

464

00:13:56,802 --> 00:13:58,604

WITH RELEASE OF THE HOLDDOWN

465

00:13:58,671 --> 00:14:00,272

MECHANISM AT THE BASE OF THE

466

00:14:00,339 --> 00:14:01,774

ROCKET AND ALSO RETRACTION

467

00:14:01,840 --> 00:14:03,876

OF THE TRANSPORTER LAUNCHER

468

00:14:03,943 --> 00:14:06,645

WHICH WE HAVE ATTACHED AS

469

00:14:06,712 --> 00:14:07,680

UMBILICAL MASK T. LIFTOFF

470

00:14:07,746 --> 00:14:08,847

WILL OCCUR THREE AND A HALF

471

00:14:08,914 --> 00:14:10,616

SECONDS AFTER ENGINE EX ARE

472

00:14:10,683 --> 00:14:12,451

EGGNITION.

473

00:14:12,518 --> 00:14:12,952

IGNITION.

474

00:14:13,018 --> 00:14:14,720

IN TERMS OF THE LAUNCH

475

00:14:14,787 --> 00:14:15,254

SEQUENCE.

476
00:14:15,321 --> 00:14:15,988
AS FRANK MENTIONED IT IS

477
00:14:16,055 --> 00:14:17,089
NINE MINUTES TOTAL.

478
00:14:17,156 --> 00:14:18,524
A LITTLE OVER NINE MINUTES

479
00:14:18,591 --> 00:14:19,858
AND LIFT JUF AND PLY

480
00:14:19,925 --> 00:14:21,827
STRAIGHT UP FOR 25 SECONDS

481
00:14:21,894 --> 00:14:23,062
WHICH WHICH PITCH OVER AND

482
00:14:23,128 --> 00:14:24,330
HEAD DOWN RANGE IN THE SOUTH

483
00:14:24,396 --> 00:14:25,965
EARLY DIRECTION AND STAGE

484
00:14:26,031 --> 00:14:26,665
ONE WILL BURN FOR THREE AND

485
00:14:26,732 --> 00:14:28,400
A HALF MINUTES BEFORE MAIN

486
00:14:28,467 --> 00:14:29,568
ENGINE CUTOFF.

487
00:14:29,635 --> 00:14:30,502
AFTER MIKO.

488
00:14:30,569 --> 00:14:32,271

STAGE ONE IS SEPARATED AP WE

489

00:14:32,338 --> 00:14:34,440

ENTER A COAST PERIOD FOR 30

490

00:14:34,506 --> 00:14:36,242

SECONDS AFTER WHICH THE

491

00:14:36,308 --> 00:14:37,142

PAYLOAD AND THE

492

00:14:37,209 --> 00:14:38,077

INTERSTEAMING ARE

493

00:14:38,143 --> 00:14:38,711

SEPARATED.

494

00:14:38,777 --> 00:14:39,912

STAGE TWO HAS BEEN IGNITED

495

00:14:39,979 --> 00:14:41,080

FOR TWO AND A HALF MINUTES

496

00:14:41,146 --> 00:14:43,716

AFTER THAT WE ARE IN ORBIT.

497

00:14:43,782 --> 00:14:45,084

CYGNUS IS SEPARATED.

498

00:14:45,150 --> 00:14:47,586

THE TARGET ORBIT NOR FLIGHT

499

00:14:47,653 --> 00:14:49,955

IS 190 BY 290-KILOMETERS.

500

00:14:50,022 --> 00:14:52,691

FROM THERE, CYGNUS USES THE

501
00:14:52,758 --> 00:14:53,926
CAPABLE PROPULSION SYSTEM TO

502
00:14:53,993 --> 00:14:55,160
RAISE THE ALTITUDE AND

503
00:14:55,227 --> 00:14:56,895
ADJUST TO RENDEZVOUS WITH

504
00:14:56,962 --> 00:14:58,497
THE ISS.

505
00:14:58,564 --> 00:14:59,698
SO ANTICIPATING QUESTIONS

506
00:14:59,765 --> 00:15:01,000
YOU MAY HAVE ABOUT THE FULL

507
00:15:01,066 --> 00:15:01,700
WEATHER FORECAST FOR

508
00:15:01,767 --> 00:15:02,134
TONIGHT.

509
00:15:02,201 --> 00:15:03,469
I CAN SEE EVERYONE BROUGHT

510
00:15:03,535 --> 00:15:04,870
THEIR COATS SO YOU ARE

511
00:15:04,937 --> 00:15:06,372
PREPARED.

512
00:15:06,438 --> 00:15:08,040
I WANT TO LET YOU KNOW THE

513
00:15:08,107 --> 00:15:09,942

AIR TEMPERATURE CONSTRAINT

514

00:15:10,009 --> 00:15:11,510

IS 20 DEGREES FAHRENHEIT SO

515

00:15:11,577 --> 00:15:12,778

WE DON'T ANTICIPATE ANY

516

00:15:12,845 --> 00:15:13,812

PROBLEMS WITH BEING ABLE TO

517

00:15:13,879 --> 00:15:15,180

LAUNCH TOMORROW DUE TO THE

518

00:15:15,247 --> 00:15:15,914

TEMPERATURE.

519

00:15:15,981 --> 00:15:16,815

THE REST OF THE WEATHER

520

00:15:16,882 --> 00:15:17,850

FORECAST LOOKS FAVORABLE

521

00:15:17,916 --> 00:15:19,485

WITH CLEAR SKIES, MODERATE

522

00:15:19,551 --> 00:15:21,353

WINDS BOTH AT SURFACE LEVEL

523

00:15:21,420 --> 00:15:22,621

AND ATTITUDE WHICH BODES

524

00:15:22,688 --> 00:15:23,322

WELL FOR LAUNCH?

525

00:15:23,389 --> 00:15:26,091

6:00 THE LAUNCH WEATHER FER

526
00:15:26,158 --> 00:15:28,460
GAVE US LESS THAN 5% PROCT

527
00:15:28,527 --> 00:15:29,895
OF VIOLATION THIS MORNING ON

528
00:15:29,962 --> 00:15:31,130
THE LATEST REPORT WHICH IS

529
00:15:31,196 --> 00:15:31,664
VERY GOOD.

530
00:15:31,730 --> 00:15:32,464
ALL RIGHT.

531
00:15:32,531 --> 00:15:34,433
NEXT I WOULD LIKE TO SHOW A

532
00:15:34,500 --> 00:15:35,968
SHORT VIDEO THAT WALKS

533
00:15:36,035 --> 00:15:36,735
THROUGH THE STEPS FOR

534
00:15:36,802 --> 00:15:37,770
GETTING THE IT READY FOR

535
00:15:37,836 --> 00:15:39,705
LAUNCH AND SHOWS OFF THE

536
00:15:39,772 --> 00:15:41,407
OUTSTANDING LOCAL STAFF HERE

537
00:15:41,473 --> 00:15:43,242
AT WALLOPS.

538
00:15:43,309 --> 00:15:44,476

A PREVIEW OF THE LAUNCH

539

00:15:44,543 --> 00:15:46,779

TOMORROW.

540

00:15:46,845 --> 00:15:48,047

LET'S SEE THIS VIDEO ■

541

00:16:06,565 --> 00:15:48,447

■ ■

542

00:17:06,325 --> 00:16:36,161

■

543

00:17:25,611 --> 00:17:26,645

>> THANK YOU.

544

00:17:26,712 --> 00:17:27,646

FINALLY, I WOULD LIKE TO

545

00:17:27,713 --> 00:17:28,714

SHARE SAD NEWS WITH ALL OF

546

00:17:28,781 --> 00:17:29,715

YOU THAT THE FORMER

547

00:17:29,782 --> 00:17:30,682

PRESIDENT AND CHIEF

548

00:17:30,749 --> 00:17:32,251

OPERATING OFFICER OF THE

549

00:17:32,317 --> 00:17:34,486

COMPANY MR. J.R. THOMPSON

550

00:17:34,553 --> 00:17:36,422

JR. PASSED AWAY THIS WOKE

551
00:17:36,488 --> 00:17:37,823
THIS TUESDAY EVENING AT THE

552
00:17:37,890 --> 00:17:39,591
AGE OF 1.

553
00:17:39,658 --> 00:17:42,027
J.R. HAD DISTIN GIB DIGS

554
00:17:42,094 --> 00:17:43,429
TIPGISHED CAREER AT NASA

555
00:17:43,495 --> 00:17:46,865
WHERE HE SERVED AS DEPUTY

556
00:17:46,932 --> 00:17:47,966
ADMINISTRATOR OF NASA.

557
00:17:48,033 --> 00:17:49,301
DURING THE TIME OF NASA,

558
00:17:49,368 --> 00:17:50,636
J.R. HELPED THE AGENCY

559
00:17:50,702 --> 00:17:52,571
RECOVER FROM THE CHALLENGER

560
00:17:52,638 --> 00:17:53,772
ACCIDENT AND GET BACK TO

561
00:17:53,839 --> 00:17:55,307
LISTEN AGAIN.

562
00:17:55,374 --> 00:17:56,608
J.R. WAS INSPIRING LEADER

563
00:17:56,675 --> 00:17:58,010

ANOTHER COMPANY AND FOR ME

564

00:17:58,076 --> 00:17:59,244

PERSONALLY AND HE WAS A

565

00:17:59,311 --> 00:18:00,646

MAJOR CONTRIBUTOR TO THE

566

00:18:00,712 --> 00:18:01,880

SUCCESS OF THE COMPANY IN

567

00:18:01,947 --> 00:18:06,218

MANY AEROSPACE PROJECTS.

568

00:18:06,285 --> 00:18:07,553

J.R. WAS THE DRIVING FORCE

569

00:18:07,619 --> 00:18:09,288

BE WHEN THE DEVELOPMENT OF

570

00:18:09,354 --> 00:18:11,957

THE SOYUZ ROCKET, CYGNUS

571

00:18:12,024 --> 00:18:14,760

SPACECRAFT HERE AT WAP

572

00:18:14,827 --> 00:18:15,227

LOLS.

573

00:18:15,294 --> 00:18:16,528

WE COULD NOT HAVE DONE IT

574

00:18:16,595 --> 00:18:17,496

WITHOUT HIM.

575

00:18:17,563 --> 00:18:19,431

PLEASE JOIN ME IN PAYING

576
00:18:19,498 --> 00:18:19,932
HOMAGE.

577
00:18:19,998 --> 00:18:20,532
THANK YOU.

578
00:18:20,599 --> 00:18:22,868
HE WELL BE SORELY MISSED?

579
00:18:22,935 --> 00:18:23,836
>> THANK YOU, KURT.

580
00:18:23,902 --> 00:18:25,204
>> WELL NOW TWO TO CAMILLE

581
00:18:25,270 --> 00:18:27,806
ELAINE OF THE INTERNATIONAL

582
00:18:27,873 --> 00:18:29,208
SPACE STATION SCIENCE OFFICE

583
00:18:29,274 --> 00:18:30,375
FOR THE UPDATE.

584
00:18:30,442 --> 00:18:32,277
>> THANK YOU, TABATHA.

585
00:18:32,344 --> 00:18:32,744
GOOD MORNING.

586
00:18:32,811 --> 00:18:33,912
IT IS GREAT TO SEE A PACKED

587
00:18:33,979 --> 00:18:34,413
HOUSE HERE.

588
00:18:34,480 --> 00:18:35,948

IT IS MY PLEASURE TO SHARE

589

00:18:36,014 --> 00:18:38,083

WITH YOU SOME OF THE SCIENCE

590

00:18:38,150 --> 00:18:39,585

THAT WILL BE FLYING TOMORROW

591

00:18:39,651 --> 00:18:44,089

ON THE ORBITAL ATK CRS-8.

592

00:18:44,156 --> 00:18:45,491

WE ARE REALLY EXCITED TO

593

00:18:45,557 --> 00:18:47,926

LAUNCH ABOUT 1900 POUNDS OF

594

00:18:47,993 --> 00:18:49,228

RESEARCH SUPPLIES AND

595

00:18:49,294 --> 00:18:52,798

SCIENCE THAT WILL SUPPORT

596

00:18:52,865 --> 00:18:53,665

ALMOST 300 INVESTIGATIONS

597

00:18:53,732 --> 00:18:55,033

THAT WILL BE CONDUCTED

598

00:18:55,100 --> 00:18:58,403

DURING EXPEDITION 53-54.

599

00:18:58,470 --> 00:19:03,842

THESE EXPERIMENTS SPORT

600

00:19:03,909 --> 00:19:05,410

INCLUDING HUMAN RESEARCH,

601
00:19:05,477 --> 00:19:08,313
PHYSICAL SCIENCES, BY HE LOL

602
00:19:08,380 --> 00:19:10,449
GY, BY OH TECHNOLOGY,

603
00:19:10,516 --> 00:19:11,817
TECHNOLOGY DEMONSTRATION,

604
00:19:11,884 --> 00:19:12,651
EARTH AND SPACE SEE YOU

605
00:19:12,718 --> 00:19:14,119
WRAPS AND EDUCATION.

606
00:19:14,186 --> 00:19:16,188
WE DO THIS RESEARCH ON ISS

607
00:19:16,255 --> 00:19:17,389
FOR THE PURPOSE OFFED A

608
00:19:17,456 --> 00:19:21,426
VAPPING OUR SCIENTIFIC

609
00:19:21,493 --> 00:19:22,194
KNOWLEDGE THROUGH THIS

610
00:19:22,261 --> 00:19:24,062
DISCOVERY FOR HUMAN SPACE

611
00:19:24,129 --> 00:19:25,330
EXPLORATION THROUGH NASA

612
00:19:25,397 --> 00:19:28,600
SPONSORED RESEARCH AND FOR

613
00:19:28,667 --> 00:19:30,002

FOSTERING SPACE COMMERCE AND

614

00:19:30,068 --> 00:19:32,004

COMMISSION MARKETPLACE AND

615

00:19:32,070 --> 00:19:33,906

IN ORBIT AND ALSO RESEARCH

616

00:19:33,972 --> 00:19:36,208

THAT BENEFITSND IMPROVING

617

00:19:36,275 --> 00:19:37,142

THE QUALITY OUR LIVES HER ON

618

00:19:37,209 --> 00:19:38,277

EARTH.

619

00:19:38,343 --> 00:19:42,080

BOTH SPONSOR BOOED I THE ISS

620

00:19:42,147 --> 00:19:42,881

U.S. NATIONAL WILL BE TO

621

00:19:42,948 --> 00:19:43,215

ARES.

622

00:19:43,282 --> 00:19:44,383

LATER TONIGHT WE HAVE THE

623

00:19:44,449 --> 00:19:45,417

BOARD BRIEFING WHERE SOME OF

624

00:19:45,484 --> 00:19:46,485

THE PRINCIPAL INVESTIGATORS

625

00:19:46,552 --> 00:19:47,953

WILL HAVE THE OPPORTUNITY TO

626
00:19:48,020 --> 00:19:50,389
HIGHLIGHT IN DETAIL SOME OF

627
00:19:50,455 --> 00:19:52,057
THE EXCITING AND

628
00:19:52,124 --> 00:19:54,726
GROUNDBREAKING RESEARCH THAT

629
00:19:54,793 --> 00:19:56,261
INCLUDES THE STAT, THE E

630
00:19:56,328 --> 00:19:59,464
COAL LOY AND MICRO KREBIAL

631
00:19:59,531 --> 00:20:01,633
SATELLITE WHICH IS A MISSION

632
00:20:01,700 --> 00:20:03,201
FLYING ON THE MAN KNOW

633
00:20:03,268 --> 00:20:05,203
SATELLITE DEPLOYED FROM THE

634
00:20:05,270 --> 00:20:06,705
MODULE AND WILL INVESTIGATE

635
00:20:06,772 --> 00:20:09,241
THE EFFECTS OF MICROGRAVITY

636
00:20:09,308 --> 00:20:12,344
ON THE ENTIRE COAL LOY

637
00:20:12,411 --> 00:20:13,412
BACTERIA.

638
00:20:13,478 --> 00:20:16,481

THE RESEARCH HAS HOPED TO

639

00:20:16,548 --> 00:20:18,283

UNDER STAND WHETHER BACTERIA

640

00:20:18,350 --> 00:20:20,719

IS MORE RESIS TENT TO TINE

641

00:20:20,786 --> 00:20:22,254

BOYOTIC IN SPACE AND WHAT

642

00:20:22,321 --> 00:20:24,022

CONTROLS THAT PHENOMENON.

643

00:20:24,089 --> 00:20:26,391

THIS COULD HELP THEM DESIGN

644

00:20:26,458 --> 00:20:27,559

EFFECTIVE COUNTER MEASURES

645

00:20:27,626 --> 00:20:29,561

FOR STROKING ASTRONAUTS AND

646

00:20:29,628 --> 00:20:31,129

DEEP SPACE MISSIONS BUT IT

647

00:20:31,196 --> 00:20:33,498

ALSO HAS IMPACT TO PUBLIC

648

00:20:33,565 --> 00:20:35,233

HEALTH HERE ON EARTH SINCE

649

00:20:35,300 --> 00:20:38,670

SOME STRAINS OF E COAL LOY

650

00:20:38,737 --> 00:20:40,138

ACTUALLY CAUSE BLADDER END

651
00:20:40,205 --> 00:20:44,743
FECTIONS OR UTI'S UHRY NARY

652
00:20:44,810 --> 00:20:46,511
TRACT IN FEXES.

653
00:20:46,578 --> 00:20:47,679
THIS INVESTIGATION IS

654
00:20:47,746 --> 00:20:49,147
COSPONSORED BY NASA AND THE

655
00:20:49,214 --> 00:20:50,816
U.S. NATIONAL LAB AND NAS

656
00:20:50,882 --> 00:20:52,417
SASS AMES RESEARCH CENTER

657
00:20:52,484 --> 00:20:53,552
AND STANFORD UNIVERSITY

658
00:20:53,619 --> 00:20:55,520
SCHOOL OF MEDICINE.

659
00:20:55,587 --> 00:20:57,422
THEN, WE HAVE TWO EXCITING

660
00:20:57,489 --> 00:20:59,424
TECHNOLOGY DEMONSTRATIONS.

661
00:20:59,491 --> 00:21:01,660
SPONSORED BY HAS' SPACE

662
00:21:01,727 --> 00:21:03,061
TECHNOLOGY MISSION DIRECTOR

663
00:21:03,128 --> 00:21:04,496

ATE AND THAT LOOKED TO

664

00:21:04,563 --> 00:21:06,531

ADVANCE Q AND SMALL

665

00:21:06,598 --> 00:21:08,500

SATELLITES TECHNOLOGIES AS A

666

00:21:08,567 --> 00:21:10,202

VIABLE PLATFORM TO SUPPORT

667

00:21:10,268 --> 00:21:11,637

SEE YOU WRENS, FOR EXPLORE

668

00:21:11,703 --> 00:21:13,138

PASSION AND COMMERCIAL

669

00:21:13,205 --> 00:21:13,739

MISSIONS.

670

00:21:13,805 --> 00:21:15,641

THE FIRST IS THE INTEGRATED

671

00:21:15,707 --> 00:21:17,976

SOLAR RY AND REFLECT RAY

672

00:21:18,043 --> 00:21:19,645

ANTENNA WHICH IS THE NU

673

00:21:19,711 --> 00:21:24,182

HYBRID SYSTEM OF SOLERA

674

00:21:24,249 --> 00:21:26,051

SYSTEMS AND ANTENNA THAT

675

00:21:26,118 --> 00:21:29,588

WILL DEMONSTRATE HIGH BAND

676
00:21:29,655 --> 00:21:31,123
WIDDED, COMMUNICATION

677
00:21:31,189 --> 00:21:32,591
CAPABILITY FOR SPACE

678
00:21:32,658 --> 00:21:33,859
APPLICATIONS AND THIS IS

679
00:21:33,925 --> 00:21:35,594
ABOUT A FIVE-MONTH MISSION

680
00:21:35,661 --> 00:21:39,431
THAT DEMONSTRATES ABOUT 100

681
00:21:39,498 --> 00:21:40,432
MEGAABOUT ITS PER SECOND DAT

682
00:21:40,499 --> 00:21:43,268
RATES UP FROM ABOUT .6-KILO

683
00:21:43,335 --> 00:21:45,704
ABOUT ITS THE SECOND AND

684
00:21:45,771 --> 00:21:48,040
ELEVATES ANTENNA TECHNOLOGY

685
00:21:48,106 --> 00:21:49,675
FROM THE TECHNOLOGY

686
00:21:49,741 --> 00:21:52,244
READINESS LEVEL OF 5 TO

687
00:21:52,310 --> 00:21:53,712
POSSIBLY READINESS LEVEL OF

688
00:21:53,779 --> 00:21:55,013

7.

689

00:21:55,080 --> 00:21:57,149

THEN, THERE IS OPTICAL

690

00:21:57,215 --> 00:21:58,650

COMMUNICATION AND SENSOR

691

00:21:58,717 --> 00:21:59,685

DEMONSTRATION THAT WILL BE

692

00:21:59,751 --> 00:22:01,753

THE FIRST DEMONSTRATION OF

693

00:22:01,820 --> 00:22:04,289

SPACE TO GROUND LASER

694

00:22:04,356 --> 00:22:05,691

COMMUNICATION WITH CUBE

695

00:22:05,757 --> 00:22:06,324

SATELLITES.

696

00:22:06,391 --> 00:22:08,727

WILL ALSO DEMONSTRATE SMALL

697

00:22:08,794 --> 00:22:11,129

SATELLITE PROXIMITY

698

00:22:11,196 --> 00:22:13,031

OPERATIONS LASER RANGING AND

699

00:22:13,098 --> 00:22:15,067

TRACKING AND PROPULSION.

700

00:22:15,133 --> 00:22:17,002

THIS MISSION IS ADVANCING

701
00:22:17,069 --> 00:22:19,171
THE U.S. USE OF THESE CUBE

702
00:22:19,237 --> 00:22:21,073
SATELLITE TECHNOLOGIES FOR

703
00:22:21,139 --> 00:22:22,507
OBSTACLE COMMUNICATION AND

704
00:22:22,574 --> 00:22:24,209
FOR RELATIVE POSITION

705
00:22:24,276 --> 00:22:25,343
MEASUREMENTS BETWEEN TWO

706
00:22:25,410 --> 00:22:26,078
SATELLITES.

707
00:22:26,144 --> 00:22:27,913
BOTH OF THESE CAPABILITIES

708
00:22:27,979 --> 00:22:29,314
HAVE NOT BEEN PREVIOUSLY

709
00:22:29,381 --> 00:22:30,382
DEMONSTRATED.

710
00:22:30,449 --> 00:22:31,950
SO GROUNDBREAKING RESEARCH.

711
00:22:32,017 --> 00:22:35,087
AND THEN, WE HAVE A SWEEP OF

712
00:22:35,153 --> 00:22:36,688
EDUCATION EXPERTS DESIGNED

713
00:22:36,755 --> 00:22:38,290

BY STUDENTS FROM ACROSS THE

714

00:22:38,356 --> 00:22:38,857

COUNTRY.

715

00:22:38,924 --> 00:22:41,626

AS PART OF THE HIGHER ORBITS

716

00:22:41,693 --> 00:22:44,429

PROGRAM AND THE MAGNITUDE

717

00:22:44,496 --> 00:22:45,831

PROGRAM BOTH SPONSORED

718

00:22:45,897 --> 00:22:48,400

THROUGH THE MESSINGAL LAB

719

00:22:48,467 --> 00:22:51,837

MANAGED AND THE STUDENTS

720

00:22:51,903 --> 00:22:52,704

INVESTIGATE INVESTIGATION

721

00:22:52,771 --> 00:22:54,206

RANGE FROM LOOKING AT THE

722

00:22:54,272 --> 00:22:57,042

EFFECT OF MICROPRAI FTY AND

723

00:22:57,109 --> 00:22:58,143

THE LIFE CYCLE AND THE

724

00:22:58,210 --> 00:23:00,212

BIOLOGICAL NI THROW GEN

725

00:23:00,278 --> 00:23:02,414

PROCESS OF MICROWHICH IS

726
00:23:02,481 --> 00:23:06,118
WELL-KNOWN AND ALSO THE LIFE

727
00:23:06,184 --> 00:23:09,187
CYCLE OF A MODEL ORGANISM

728
00:23:09,254 --> 00:23:12,724
FOR PLANS.

729
00:23:12,791 --> 00:23:14,226
THESE EXPERIMENTS WERE

730
00:23:14,292 --> 00:23:16,294
DESIGNED BY STUDENTS RANGING

731
00:23:16,361 --> 00:23:18,530
FROM GRIDS 6 THROUGH 12 AND

732
00:23:18,597 --> 00:23:19,965
REALLY DEMONSTRATE THE USE

733
00:23:20,031 --> 00:23:22,234
OF THE SPACE STATION AS A

734
00:23:22,300 --> 00:23:24,202
PLATFORM THAT ENGAGES AND

735
00:23:24,269 --> 00:23:25,871
INSPIRES THE NEXT GENERATION

736
00:23:25,937 --> 00:23:28,807
OF SCIENTISTS, ENGINEER AND

737
00:23:28,874 --> 00:23:29,741
EXPLORERS.

738
00:23:29,808 --> 00:23:32,043

FINALLY, WE ARE LAUNCHING

739

00:23:32,110 --> 00:23:33,145

HARDWARE THAT ARE

740

00:23:33,211 --> 00:23:34,780

PREPOSITIONED FOR UPCOMING

741

00:23:34,846 --> 00:23:36,915

INVESTIGATIONS SUCH AS

742

00:23:36,982 --> 00:23:38,950

ANIMAL HABITAT FOR RESEARCH,

743

00:23:39,017 --> 00:23:41,186

GAS BOTTLES THAT WILL ENABLE

744

00:23:41,253 --> 00:23:44,222

THE ADVANCED COMBUSTION IN

745

00:23:44,289 --> 00:23:45,490

MICROPRF TY WHICH IS THE

746

00:23:45,557 --> 00:23:47,959

NEXT EVOLUTION OF SPACE COME

747

00:23:48,026 --> 00:23:51,129

BUGSTOP VISIONS AND RESUPPLY

748

00:23:51,196 --> 00:23:53,031

ITEMS THE 3D PRINTER

749

00:23:53,098 --> 00:23:54,466

MANUFACTURING DEVICE TO NIM

750

00:23:54,533 --> 00:23:55,767

A VIEW FEW.

751
00:23:55,834 --> 00:23:58,436
SO THESE INVESTIGATIONS ARE

752
00:23:58,503 --> 00:23:59,704
JUST AM SAM ENVELOPE SCIENCE

753
00:23:59,771 --> 00:24:02,674
THAT IS ENABLED BY TOMORROW

754
00:24:02,741 --> 00:24:04,609
ATK LUNCH AND THAT CONTINUES

755
00:24:04,676 --> 00:24:06,244
TO CONTRIBUTE THOUGH

756
00:24:06,311 --> 00:24:07,779
ADVANCEMENTS OF HUMAN SPACE

757
00:24:07,846 --> 00:24:10,415
EXPLORATIONS AND TO ALSO

758
00:24:10,482 --> 00:24:11,583
IMPROVING THE QUALITY OUR

759
00:24:11,650 --> 00:24:12,117
LIFE HERE ON EARTH.

760
00:24:12,184 --> 00:24:13,985
THANK YOU.

761
00:24:14,052 --> 00:24:16,021
>> THANK YOU, CAMILLE.

762
00:24:16,087 --> 00:24:16,922
NEXT WE HAVE JOHN DICKERSON

763
00:24:16,988 --> 00:24:18,423

WHO HAS MORE INFORMATION, I

764

00:24:18,490 --> 00:24:19,658

BLEN, OB THAT WEATHER

765

00:24:19,724 --> 00:24:21,259

FORECAST EVERYONE IS

766

00:24:21,326 --> 00:24:22,294

WATCHING SO CLOSELY.

767

00:24:22,360 --> 00:24:24,996

HE IS THE DIRECTOR WITH

768

00:24:25,063 --> 00:24:26,298

WALLOPS FACILITY.

769

00:24:26,364 --> 00:24:27,699

>> YES, GOOD, MORNING

770

00:24:27,766 --> 00:24:28,233

EVERYONE.

771

00:24:28,300 --> 00:24:30,202

I AM PROUD TO SAY THAT WAP

772

00:24:30,268 --> 00:24:31,503

WALLOPS IS READY FOR THE

773

00:24:31,570 --> 00:24:32,204

OPERATIONS.

774

00:24:32,270 --> 00:24:35,106

BOTH LOCAL SITES AND THE

775

00:24:35,173 --> 00:24:36,942

STATION IS READY AND DOWN

776

00:24:37,008 --> 00:24:38,677

RANGE SITES IN BERMUDA ARE

777

00:24:38,743 --> 00:24:39,211

READY.

778

00:24:39,277 --> 00:24:41,246

WE COMPLETED THE CHECKS AND

779

00:24:41,313 --> 00:24:42,948

CHECKS THIS MORNING.

780

00:24:43,014 --> 00:24:45,817

SO WE ARE PRIMARILY GREEN.

781

00:24:45,884 --> 00:24:46,952

WE START LAUNCH OPERATIONS

782

00:24:47,018 --> 00:24:47,285

OPEN TO.

783

00:24:47,352 --> 00:24:48,954

I HAVE ONE SLIDE.

784

00:24:49,020 --> 00:24:50,188

CAN YOU BRING THAT SLIDE

785

00:24:50,255 --> 00:24:50,455

UP.

786

00:24:50,522 --> 00:24:58,096

IF THROWS THE CATEGORY HAS

787

00:24:58,163 --> 00:24:59,831

WE USE TO ACCESS IT.

788

00:24:59,898 --> 00:25:00,899

WE ARE GROWN.

789

00:25:00,966 --> 00:25:03,168

WE HAVE R LESS THAN 5%

790

00:25:03,235 --> 00:25:06,705

CHANCE OF BREAKING OUR

791

00:25:06,771 --> 00:25:08,373

HAVING A VIOLATION THAT GOES

792

00:25:08,440 --> 00:25:10,075

FOR TODAY, TOMORROW, AS WELL

793

00:25:10,141 --> 00:25:21,720

AS SUNDAY.

794

00:25:21,786 --> 00:25:22,554

>> THANK YOU.

795

00:25:22,621 --> 00:25:24,723

WITH THAT WE'LL OPEN UP

796

00:25:24,789 --> 00:25:27,025

QUESTIONS ON THE PHONE LOIN

797

00:25:27,092 --> 00:25:29,361

AND SOCIAL MEDIA USING THE

798

00:25:29,427 --> 00:25:30,528

HASHTAG ASK NASA.

799

00:25:30,595 --> 00:25:31,596

IF YOU HAVE A QUESTION,

800

00:25:31,663 --> 00:25:33,298

RAISE YOUR HAND, WAIT FOR

801
00:25:33,365 --> 00:25:35,400
THE MICROPHONE.

802
00:25:35,467 --> 00:25:36,501
WE HAVE TWO MEEK HANDLERS IN

803
00:25:36,568 --> 00:25:37,502
THE ROOM.

804
00:25:37,569 --> 00:25:38,470
WAIT FOR THE MICROPHONE TO

805
00:25:38,536 --> 00:25:39,004
REACH YOU.

806
00:25:39,070 --> 00:25:40,372
THEN WE'LL CALL ON YOU.

807
00:25:40,438 --> 00:25:41,773
JUST ONE MOMENT, WE ARE

808
00:25:41,840 --> 00:25:43,942
GOOD.

809
00:25:44,009 --> 00:25:46,978
>> THIS ONE GOES KURT.

810
00:25:47,045 --> 00:25:48,914
KURT, LAST FALLISH, YOU

811
00:25:48,980 --> 00:25:51,816
LAUNCHED THE OA5 MISSION THE

812
00:25:51,883 --> 00:25:52,617
181.

813
00:25:52,684 --> 00:25:54,653

ANY MODIFICATIONS THAT YOU

814

00:25:54,719 --> 00:25:56,888

MADE AFTERTH INNING HOW THAT

815

00:25:56,955 --> 00:25:59,491

ONE LEFT PAD 0A WAS IT WHAT

816

00:25:59,557 --> 00:26:00,892

WE ARE LOOKING FOR AND GOING

817

00:26:00,959 --> 00:26:02,360

TO MOVE RIG ON?

818

00:26:02,427 --> 00:26:04,930

THANK YOU.

819

00:26:04,996 --> 00:26:05,597

>> SURE.

820

00:26:05,664 --> 00:26:06,531

THANKS FOR THE QUESTION.

821

00:26:06,598 --> 00:26:06,932

YEAH.

822

00:26:06,998 --> 00:26:07,365

NO.

823

00:26:07,432 --> 00:26:09,601

NO CHANGES TO THE FLIGHT

824

00:26:09,668 --> 00:26:10,735

DESIGN TRAJECTORY.

825

00:26:10,802 --> 00:26:12,771

THERE ARE A FEW TWEAKS IN

826

00:26:12,837 --> 00:26:14,606

THE ME MOUSE COUNT.

827

00:26:14,673 --> 00:26:16,708

WE BACK SOME THINGS BY TWO

828

00:26:16,775 --> 00:26:17,776

MINUTES TO GIVE OURSELVES

829

00:26:17,842 --> 00:26:19,044

MORE TIME TO GET THROUGH

830

00:26:19,110 --> 00:26:20,078

COUNTDOWN STEPS S. THAT IS

831

00:26:20,145 --> 00:26:20,879

REALLY IT.

832

00:26:20,946 --> 00:26:22,147

SO THEY WERE SPOT ON.

833

00:26:22,213 --> 00:26:23,982

WE FIRE EACH OF THE ENGINES

834

00:26:24,049 --> 00:26:26,651

FOR A FULL FLIGHT DURATION

835

00:26:26,718 --> 00:26:28,320

IN THE TEST SO WE GIN A LOT

836

00:26:28,386 --> 00:26:30,622

OF CONFIDENCE IN OUR GROUND

837

00:26:30,689 --> 00:26:36,628

TESTING BY THE TIME WE GET

838

00:26:36,695 --> 00:26:37,662

TO LAUNCH.

839

00:26:37,729 --> 00:26:39,364

>> JUST A REMINDER, IF YOU F

840

00:26:39,431 --> 00:26:40,665

YOU HAVE A QUESTION, MAKE

841

00:26:40,732 --> 00:26:41,833

SURE YOU IDENTIFY YOU ARE

842

00:26:41,900 --> 00:26:42,901

ADDRESSING THE QUESTION AS

843

00:26:42,968 --> 00:26:44,436

WELL AS WAITING FOR THE

844

00:26:44,502 --> 00:26:45,136

MICROPHONE.

845

00:26:45,203 --> 00:26:47,605

I THINK WE HAVE ONE HERE IN

846

00:26:47,672 --> 00:26:49,474

THE ONE.

847

00:26:49,541 --> 00:26:52,010

>> IS THE PLAN TO PLY OUT

848

00:26:52,077 --> 00:26:53,712

THE REST OF THE MISSION FROM

849

00:26:53,778 --> 00:26:55,080

HERE AND WHAT IS THE

850

00:26:55,146 --> 00:26:57,782

PLANNING RIGHT NOW FOR THE

851
00:26:57,849 --> 00:26:59,217
CRS2 MISSIONS YOU HAVE UNDER

852
00:26:59,284 --> 00:27:00,318
CONTRACT INTO YEAH.

853
00:27:00,385 --> 00:27:01,686
SO OUR PLAN, OUR BASELINE

854
00:27:01,753 --> 00:27:05,090
PLAN IS TO CONTINUE TO FLY.

855
00:27:05,156 --> 00:27:06,691
WE'RE READY TO RESPOND TO

856
00:27:06,758 --> 00:27:09,194
OUR CUSTOMER'S NEEDS IF THEY

857
00:27:09,260 --> 00:27:10,829
SHOULD REQUIRE SOMETHING

858
00:27:10,895 --> 00:27:11,730
DIFFERENTLY.

859
00:27:11,796 --> 00:27:15,367
FOR ALL OF THE REST REST, SO

860
00:27:15,433 --> 00:27:16,968
FAR FOR THE TWO MISSIONS WE

861
00:27:17,035 --> 00:27:30,815
ARE PLANNING TO BE ON.

862
00:27:30,882 --> 00:27:35,353
>> HI.

863
00:27:35,420 --> 00:27:39,457

LET'S TALK ABOUT WHY, WHY

864

00:27:39,524 --> 00:27:41,192

CYGNUS RELATIVELY SHORT.

865

00:27:41,259 --> 00:27:47,198

IT IS IT RELATED TO THE

866

00:27:47,265 --> 00:27:47,665

SPACEX?

867

00:27:47,732 --> 00:27:51,302

AND TALK A LITTLE BIT MORE

868

00:27:51,369 --> 00:27:59,778

ABOUT THIS.

869

00:27:59,844 --> 00:28:02,147

I BELIEVE ACTUALLY WE ARE IN

870

00:28:02,213 --> 00:28:04,349

A GOOD CONFIGURATION AND

871

00:28:04,416 --> 00:28:07,585

THEN A SPACEX CAME UP SAOUB

872

00:28:07,652 --> 00:28:11,723

SEE QNTLY AND IN THE

873

00:28:11,790 --> 00:28:12,924

CONFIGURATION WE ARE IN,

874

00:28:12,991 --> 00:28:14,125

THERE IS A LOT OF ROD DID

875

00:28:14,192 --> 00:28:15,393

YOUS THAT HAVE TO BE TURNED

876
00:28:15,460 --> 00:28:17,262
OVER AHEAD OF TIME, SO SORT

877
00:28:17,328 --> 00:28:18,963
OF THE CONFIGURATION WE ARE

878
00:28:19,030 --> 00:28:21,266
IN WITH SPACEX, THAT HAIL

879
00:28:21,332 --> 00:28:23,134
SIS, ALL OF THAT WORK

880
00:28:23,201 --> 00:28:24,903
ASSUMES THE CYGNUS WOULD BE

881
00:28:24,969 --> 00:28:25,937
GONE AT THAT TIME.

882
00:28:26,004 --> 00:28:27,839
SO THAT IS PRIMARILY WHAT IS

883
00:28:27,906 --> 00:28:30,041
DRIVING DECEMBER 3rd.

884
00:28:30,108 --> 00:28:31,943
WE, WE CAN DO ALL, AGAIN,

885
00:28:32,010 --> 00:28:34,179
WITH THE CREW OF FOUR ON THE

886
00:28:34,245 --> 00:28:36,047
LEFT SIDE, THAT IS NOT A

887
00:28:36,114 --> 00:28:37,282
CONSTRAINT FOR UNLOADING AL

888
00:28:37,348 --> 00:28:39,050

THE CAR FAUX, REPACKING THE

889

00:28:39,117 --> 00:28:40,552

CARGO, AND, AND GETTING THE

890

00:28:40,618 --> 00:28:45,557

CREWS READY TO GO TO RELEASE

891

00:28:45,623 --> 00:28:48,059

CYGNUS AND PERFORM THIS GPS

892

00:28:48,126 --> 00:28:48,593

TEST.

893

00:28:48,660 --> 00:28:52,097

WHAT WE PLAN TO DO THERE IS

894

00:28:52,163 --> 00:28:55,300

MANEUVER ONCE WE UNBERTH

895

00:28:55,366 --> 00:28:56,668

CYGNUS, WE PLAN TO MANEUVER

896

00:28:56,734 --> 00:29:00,572

IT TO THE TOP OF 2 VENUS AND

897

00:29:00,638 --> 00:29:02,307

HOVER IT WITHIN TWO FEET OF

898

00:29:02,373 --> 00:29:07,412

THE ACTUAL BERTHING PORT.

899

00:29:07,479 --> 00:29:08,113

COMMERCIAL CREW VEHICLES

900

00:29:08,179 --> 00:29:09,814

THAT WILL BE THERE.

901
00:29:09,881 --> 00:29:10,849
PAIN, COMMERCIAL CREW

902
00:29:10,915 --> 00:29:11,783
VEHICLES BEING FOR SIX

903
00:29:11,850 --> 00:29:12,884
MONTHS.

904
00:29:12,951 --> 00:29:14,586
THEN WE PLAN TO DO, YOU

905
00:29:14,652 --> 00:29:16,921
KNOW, DIFFERENT VARIATIONS

906
00:29:16,988 --> 00:29:17,956
WITH IDEATIONAL VEHICLES

907
00:29:18,022 --> 00:29:19,324
COMING TO THE INTERNATIONAL

908
00:29:19,390 --> 00:29:20,792
SPACE STATION AND THERE WERE

909
00:29:20,859 --> 00:29:22,026
SOME CONCERN WE MAY ARE SOME

910
00:29:22,093 --> 00:29:23,428
WHAT WE CALL THE CITY

911
00:29:23,495 --> 00:29:26,030
SYSTEMS, GPS BLOCKAGE WHILE

912
00:29:26,097 --> 00:29:27,332
WE HAVE A VEHICLE UP TOP

913
00:29:27,398 --> 00:29:28,833

THERE AND WE RAN SOME TESTS

914

00:29:28,900 --> 00:29:30,301

THERE BEFORE.

915

00:29:30,368 --> 00:29:31,669

IT HAS SHOWN GOOD

916

00:29:31,736 --> 00:29:33,004

PERFORMANCE SO TRYING TO

917

00:29:33,071 --> 00:29:34,272

CHARACTERIZE IT A LITTLE BIT

918

00:29:34,339 --> 00:29:35,640

FURTHER AND THEN CYGNUS

919

00:29:35,707 --> 00:29:37,142

OFFERS A SIGNIFICANTLY SIZED

920

00:29:37,208 --> 00:29:39,878

MODULE AND SO WE SHOULD GET

921

00:29:39,944 --> 00:29:41,913

GOOD BLOCKAGE OR GOOD

922

00:29:41,980 --> 00:29:43,081

PERFORMANCE DEPENDING ON HOW

923

00:29:43,148 --> 00:29:44,949

THE TEST RESULTS SHOW UP.

924

00:29:45,016 --> 00:29:46,384

THINK WE'RE HOLDING IT THERE

925

00:29:46,451 --> 00:29:49,621

FOR 12 HOURS AND THEN, THEN

926
00:29:49,687 --> 00:29:50,788
SUBSEQUENT DAY.

927
00:29:50,855 --> 00:29:52,190
BRING IT BACK TO DOWN TO THE

928
00:29:52,257 --> 00:29:53,925
NATIVE POSITION THEN RELEASE

929
00:29:53,992 --> 00:29:57,862
CYGNUS WILL FLY OFF AND DO

930
00:29:57,929 --> 00:30:01,566
ITS ACTUALLY DO ITS PLOY.

931
00:30:01,633 --> 00:30:03,434
THAT'S THE MACHINE INTENT.

932
00:30:03,501 --> 00:30:07,071
AGAIN, TO CHECK OUT ISSDPS

933
00:30:07,138 --> 00:30:07,972
PERFORMANCE WITH THE SLEEK

934
00:30:08,039 --> 00:30:08,640
AND ANOTHER VEHICLE COMING

935
00:30:08,706 --> 00:30:10,808
THAT OTHER VEHICLE COMING

936
00:30:10,875 --> 00:30:12,677
NEEDS TO BE IN COME

937
00:30:12,744 --> 00:30:13,178
HPCATION.

938
00:30:13,244 --> 00:30:14,179

WAS THE WE ARE TRYING TO

939

00:30:14,245 --> 00:30:19,784

CHECK OUT.

940

00:30:19,851 --> 00:30:20,852

>> OUR NEXT QUESTION.

941

00:30:20,919 --> 00:30:22,954

OK.

942

00:30:23,021 --> 00:30:24,822

ON TWITTER, ARE THERE ANY

943

00:30:24,889 --> 00:30:26,124

PERSONAL EFFECTS FROM THE

944

00:30:26,191 --> 00:30:28,259

ASTRONAUT FAMILY ABOARD THE

945

00:30:28,326 --> 00:30:29,827

FLIGHT FOR THE HOLIDAYS?

946

00:30:29,894 --> 00:30:30,995

>> OH, THAT WOULD BE A

947

00:30:31,062 --> 00:30:32,330

QUESTION FOR ME.

948

00:30:32,397 --> 00:30:33,464

CAMILLE, I DON'T KNOW IF YOU

949

00:30:33,531 --> 00:30:33,865

KNOW.

950

00:30:33,932 --> 00:30:35,700

I THINK SOME OF YOU, WE VARY

951
00:30:35,767 --> 00:30:37,068
ON EVERY MESSING.

952
00:30:37,135 --> 00:30:39,537
WE HAVE CREW CARE PACKAGES

953
00:30:39,604 --> 00:30:41,105
THAT WE SENT UP FROM FAMILY

954
00:30:41,172 --> 00:30:43,007
MEMBERS AND I CAN ALSO TELL

955
00:30:43,074 --> 00:30:44,609
YOU, THERE IS, I THINK THE

956
00:30:44,676 --> 00:30:46,010
FIRST TIME WE HAVE FLOWN

957
00:30:46,077 --> 00:30:50,682
WHAT WE ARE CALLING LONG

958
00:30:50,748 --> 00:30:52,550
DURATION OF BOX, I WILL SAY,

959
00:30:52,617 --> 00:30:54,752
WHERE IT HAS SIGNIFICANT

960
00:30:54,819 --> 00:30:56,454
HOLD TIME TO KEEP THINGS

961
00:30:56,521 --> 00:30:58,890
COOL AND MAYBE 10-11 DAYS

962
00:30:58,957 --> 00:31:00,158
WORTH AND WE HAVE PACKED

963
00:31:00,225 --> 00:31:01,693

THAT FULL OF FRESH

964

00:31:01,759 --> 00:31:03,094

VEGETABLE, FRESH FRUIT, SO

965

00:31:03,161 --> 00:31:04,596

THE CREW IS FOG GET TREATS

966

00:31:04,662 --> 00:31:05,797

WHEN THEY OPEN IT UP.

967

00:31:05,863 --> 00:31:08,433

IT WILL BE GREAT FOR THEM.

968

00:31:08,499 --> 00:31:09,667

>> DO YOU HAVE A QUESTION IN

969

00:31:09,734 --> 00:31:11,236

THE ROOM, PLEASE RAISE YOUR

970

00:31:11,302 --> 00:31:12,737

HAND AND WAIT FOR THE

971

00:31:12,804 --> 00:31:14,239

MICROPHONE TO GET THERE.

972

00:31:14,305 --> 00:31:18,176

WE'LL GO AHEAD AND TAKE

973

00:31:18,243 --> 00:31:20,878

ANOTHER QUESTION.

974

00:31:20,945 --> 00:31:23,381

>> SO JACK WANTS TO KNOW WHAT

975

00:31:23,448 --> 00:31:26,484

IS THE T IN T MINUS 10 STAND

976
00:31:26,551 --> 00:31:27,385
FOR.

977
00:31:27,452 --> 00:31:32,023
[LAUGHTER]

978
00:31:32,090 --> 00:31:33,458
>> T STANDS FOR TIME, I

979
00:31:33,524 --> 00:31:34,525
BELIEVE.

980
00:31:34,592 --> 00:31:37,495
[LAUGHTER]

981
00:31:37,562 --> 00:31:41,532
>> LAUNCH TIME.

982
00:31:41,599 --> 00:31:43,501
>> WE ACTUALLY USE A T CLOCK

983
00:31:43,568 --> 00:31:45,670
SO YOU MAHAR THE LAUNCH

984
00:31:45,737 --> 00:31:47,338
CONDUCTOR TALK ABOUT A L

985
00:31:47,405 --> 00:31:49,641
CLOCK AND A T CLOCK.

986
00:31:49,707 --> 00:31:51,309
THE L CLOCK AND GOING TO GET

987
00:31:51,376 --> 00:31:54,812
TO GLER REAT 7:00S THIS WE

988
00:31:54,879 --> 00:31:56,180

VET IT TO GO TO THE

989

00:31:56,247 --> 00:31:57,448

FIVE-MINUTE WINDOW THEM

990

00:31:57,515 --> 00:31:58,516

WE'LL TARGET THE OPENING OF

991

00:31:58,583 --> 00:32:00,151

THE FIVE-MINUTE WINDOW THAT

992

00:32:00,218 --> 00:32:01,619

GIVES US THE FLEXIBILITY TO

993

00:32:01,686 --> 00:32:03,021

DELAY UP TO FIVE MINUTES,

994

00:32:03,087 --> 00:32:04,389

YOU KNOW, FOR WHATEVER

995

00:32:04,455 --> 00:32:06,291

REASON, THEN THERE IS A T

996

00:32:06,357 --> 00:32:09,260

CLOCK THAT WE RUN THAT HAS

997

00:32:09,327 --> 00:32:12,764

TWO BUILT IN HOLD PLANS FOR

998

00:32:12,830 --> 00:32:14,565

TEN-MINUTE DURATION EACH.

999

00:32:14,632 --> 00:32:17,969

SO THE T CLOCK WILL I LISHLY

1000

00:32:18,036 --> 00:32:19,570

BE IN ADVANCE THEN WE HIT

1001
00:32:19,637 --> 00:32:21,406
HOLE AND SLOW JUN AND THAT

1002
00:32:21,472 --> 00:32:22,840
IS A LITTLE MORE INFORMATION

1003
00:32:22,907 --> 00:32:26,110
THAN ANYONE NEEDED TO KNOW.

1004
00:32:26,177 --> 00:32:27,979
IF HEAR L MINUS OR T MINUS

1005
00:32:28,046 --> 00:32:30,014
TOMORROW ON THE COUNTDOWN,

1006
00:32:30,081 --> 00:32:31,883
THAT IS WHAT IS REFERRING

1007
00:32:31,949 --> 00:32:35,053
TO.

1008
00:32:35,119 --> 00:32:36,421
>> ACTUALLY WE'LL TAKE ONE

1009
00:32:36,487 --> 00:32:37,422
QUESTION NOW ON THE PHONE

1010
00:32:37,488 --> 00:32:38,856
LINE AND THEN COME BACK TO

1011
00:32:38,923 --> 00:32:43,494
THE ROOM.

1012
00:32:43,561 --> 00:32:44,762
GO AHEAD.

1013
00:32:44,829 --> 00:32:46,030

YOUR LINE IS UP OPEN.

1014

00:32:46,097 --> 00:32:46,597

>> HI.

1015

00:32:46,664 --> 00:32:48,032

I AM ACTUALLY NOT SURE WHICH

1016

00:32:48,099 --> 00:32:49,400

OF YOU WOULD BE BEST

1017

00:32:49,467 --> 00:32:50,735

EQUIPPED TO ANSWER THIS

1018

00:32:50,802 --> 00:32:53,037

QUESTION.

1019

00:32:53,104 --> 00:33:01,646

[AUDIO DIFFICULTY]

1020

00:33:01,713 --> 00:33:04,716

>> WE ARE HAVING A LIFE

1021

00:33:04,782 --> 00:33:06,017

DIFFICULTY WITH THE POPE

1022

00:33:06,084 --> 00:33:06,684

LOIN AND GO TO A QUESTION IN

1023

00:33:06,751 --> 00:33:08,453

THE ROOM AND SEE IF THEY CAN

1024

00:33:08,519 --> 00:33:09,754

FIGURE OUT THE PHONE AND

1025

00:33:09,821 --> 00:33:15,126

COME BACK TO IT.

1026
00:33:15,193 --> 00:33:16,594
I DON'T BELIEVE WE WERE ABLE

1027
00:33:16,661 --> 00:33:19,063
TO COPY ON THAT QUESTION

1028
00:33:19,130 --> 00:33:20,498
BECAUSE OF THE PONE WALL IN

1029
00:33:20,565 --> 00:33:21,265
THE ROOM.

1030
00:33:21,332 --> 00:33:22,333
WE'RING ABOUT TO GO TO A

1031
00:33:22,400 --> 00:33:23,501
QUESTION IN THE ROOM NOW

1032
00:33:23,568 --> 00:33:24,635
TOWARD THE BACK OF THE ROOM

1033
00:33:24,702 --> 00:33:25,603
AND COME BACK TO THE PHONE

1034
00:33:25,670 --> 00:33:26,871
LINE ONCE WE FEG GURE THIS

1035
00:33:26,938 --> 00:33:29,407
OUT.

1036
00:33:29,474 --> 00:33:32,410
>> WSKB, FOR FRANK OR DAN,

1037
00:33:32,477 --> 00:33:35,012
ANY SIGNIFICANCE TO VERY

1038
00:33:35,079 --> 00:33:36,748

VETERANS DAY AND IT WILL BE

1039

00:33:36,814 --> 00:33:37,849

LAUNCHING ON VES VETERANS

1040

00:33:37,915 --> 00:33:38,149

DAY.

1041

00:33:38,216 --> 00:33:39,117

>> OUR BACKUP DAY IS

1042

00:33:39,183 --> 00:33:40,818

SUNDAY.

1043

00:33:40,885 --> 00:33:42,720

WE HAVE NO CONSTRAINTS

1044

00:33:42,787 --> 00:33:44,555

AGAINST THAT.

1045

00:33:44,622 --> 00:33:45,757

VEHICLE TRAFFIC IN THE

1046

00:33:45,823 --> 00:33:47,191

INTERNATIONAL SPACE IS IS

1047

00:33:47,258 --> 00:33:49,360

WID OPEN FOR THE NEXT 10 TO

1048

00:33:49,427 --> 00:33:51,129

11 DAYS I WOULD SAY.

1049

00:33:51,195 --> 00:33:52,530

WE HAVEN'T LOOKED OUT IF YOU

1050

00:33:52,597 --> 00:33:53,698

ARER THAT THAN THAT.

1051
00:33:53,765 --> 00:33:55,199
SATURDAY, BACKUP DY ON

1052
00:33:55,266 --> 00:33:55,633
SUNDAY.

1053
00:33:55,700 --> 00:33:57,135
IF WE HAPPEN TO GO TO

1054
00:33:57,201 --> 00:33:57,802
SUNDAY.

1055
00:33:57,869 --> 00:33:58,569
THAT WOULD MOVE THE BERTHING

1056
00:33:58,636 --> 00:33:59,704
DATE FROM MONDAY TO

1057
00:33:59,771 --> 00:34:00,705
TUESDAY.

1058
00:34:00,772 --> 00:34:03,508
THAT IS JUST FINE FOR SPACE

1059
00:34:03,574 --> 00:34:05,109
STATION OPERATIONS AND OUR

1060
00:34:05,176 --> 00:34:07,044
PAYLOADS THAT ARE INSIDE

1061
00:34:07,111 --> 00:34:08,513
CYGNUS TODAY AND THEY CAN

1062
00:34:08,579 --> 00:34:09,814
RIDE ON THROUGH THAT.

1063
00:34:09,881 --> 00:34:11,883

>> YEAH.

1064

00:34:11,949 --> 00:34:13,050

THE ORIGINAL LAUNCH DATE I

1065

00:34:13,117 --> 00:34:14,919

THINK YOU ARE REFERRING TO

1066

00:34:14,986 --> 00:34:17,355

IS NOVEMBER 10th.

1067

00:34:17,422 --> 00:34:18,823

WE MOVED IT BECAUSE IT WORKS

1068

00:34:18,890 --> 00:34:20,391

OUT FROM THE MA KANGS POINT

1069

00:34:20,458 --> 00:34:20,958

OF VIEW.

1070

00:34:21,025 --> 00:34:22,460

WE ACTUALLY GET THERE FASTER

1071

00:34:22,527 --> 00:34:24,662

LUNCHING A DAY LATER T. FM

1072

00:34:24,729 --> 00:34:26,230

WE LARCHED ON THE 10th

1073

00:34:26,297 --> 00:34:27,265

WE WOULD HAVE GOTTEN THERE

1074

00:34:27,331 --> 00:34:28,499

ON THE 4th.

1075

00:34:28,566 --> 00:34:29,934

LUMPING TOMORROW, GET THERE

1076

00:34:30,001 --> 00:34:31,335

ON THE 13th IT WAS FOR

1077

00:34:31,402 --> 00:34:33,371

THE SCIENCE PAYLOAD FROM

1078

00:34:33,438 --> 00:34:34,872

LOADING INTO SIG US NOW THE

1079

00:34:34,939 --> 00:34:36,174

PACE STATION AS QUICK AS

1080

00:34:36,240 --> 00:34:37,909

POSSIBLE.

1081

00:34:37,975 --> 00:34:40,344

>> WE HAVE A QUESTION AGAIN

1082

00:34:40,411 --> 00:34:42,580

FROM JASON RYAN THEN WE'LL

1083

00:34:42,647 --> 00:34:44,248

COME BACK TO THE FRONT ROW.

1084

00:34:44,315 --> 00:34:45,783

>> THIS IS FOR FRANK THIS

1085

00:34:45,850 --> 00:34:46,384

TIME.

1086

00:34:46,451 --> 00:34:49,620

THE FIRST QUESTION, FRANG,

1087

00:34:49,687 --> 00:34:53,024

IF A NEED AROSE FOR A

1088

00:34:53,090 --> 00:34:54,192

LATE-MINUTE LOAD THERE

1089

00:34:54,258 --> 00:34:55,460

IS A CAPABILITY TO HANDLE

1090

00:34:55,526 --> 00:34:55,827

THAT.

1091

00:34:55,893 --> 00:34:56,961

THE SECOND ONE DEALS WITH

1092

00:34:57,028 --> 00:34:58,863

SAPPHIRE.

1093

00:34:58,930 --> 00:35:01,132

YOU GUYS CARRIED OUT TOT

1094

00:35:01,199 --> 00:35:02,366

SCIENTIFIC EX PER AMS WITH

1095

00:35:02,433 --> 00:35:05,570

CYGNUS ON PRIOR MISSIONS

1096

00:35:05,636 --> 00:35:08,673

ANYTHING PLANNED AFTER IT

1097

00:35:08,739 --> 00:35:09,407

DISEMBARKS.

1098

00:35:09,474 --> 00:35:11,209

>> THANK YOU.

1099

00:35:11,275 --> 00:35:12,009

>> YEAH.

1100

00:35:12,076 --> 00:35:14,445

>> SO THE FIRST QUESTION ON

1101
00:35:14,512 --> 00:35:16,681
THE CRS1 DESIGN WE HAVE.

1102
00:35:16,747 --> 00:35:19,116
WE DID ALL THE LATE LOAD IN

1103
00:35:19,183 --> 00:35:20,718
THE FACILITY THEN ARE OUT AS

1104
00:35:20,785 --> 00:35:23,421
WE GET CLOSER I THINK THE

1105
00:35:23,488 --> 00:35:25,456
FINAL MISSION ON 1 AS WE GET

1106
00:35:25,523 --> 00:35:27,391
IN TO CRS AND WE MOD FIGHT

1107
00:35:27,458 --> 00:35:29,026
THE PROCESS BE THE DESIGN TO

1108
00:35:29,093 --> 00:35:32,163
BE ABLE TO LOAD THE CAR GE

1109
00:35:32,230 --> 00:35:35,233
SO THAT WILL BE CAP K THAT

1110
00:35:35,299 --> 00:35:40,271
WE'LL ROLL OUT BE GOING ON

1111
00:35:40,338 --> 00:35:40,805
0-11.

1112
00:35:50,781 --> 00:35:41,772
>> YES.

1113
00:35:50,848 --> 00:35:51,682

>>> YEAH.

1114

00:35:51,749 --> 00:35:54,151
SO WE'LL PICK UP SAPPHIRE.

1115

00:35:54,218 --> 00:35:55,253
ACTUALLY MAKE IT.

1116

00:35:55,319 --> 00:35:56,687
SOME LESSONS LEARNED THAT

1117

00:35:56,754 --> 00:35:58,256
THEY ARE FLYING THROUGH THE

1118

00:35:58,322 --> 00:36:00,358
NEXT GENERATION OF THAT

1119

00:36:00,424 --> 00:36:00,925
EXPERIMENT.

1120

00:36:00,992 --> 00:36:01,959
AND SO THAT WILL REQUIRE

1121

00:36:02,026 --> 00:36:02,960
SOME ADDITIONAL

1122

00:36:03,027 --> 00:36:05,730
MODIFICATIONS INSIDE OF THE

1123

00:36:05,796 --> 00:36:07,164
CYGNUS BUT OUR TINT IS TO

1124

00:36:07,231 --> 00:36:08,666
CONTINUE ON WITH SAPPHIRE

1125

00:36:08,733 --> 00:36:10,067
OPERATIONS AND I WANT TO SAY

1126

00:36:10,134 --> 00:36:11,669

THERE IS THREE PLANNED IN

1127

00:36:11,736 --> 00:36:16,407

THE SIERRAS TIME PERIOD.

1128

00:36:16,474 --> 00:36:18,075

>> WE ARE FOG GO BACK TO THE

1129

00:36:18,142 --> 00:36:19,110

PHONE LINE AND THEN COME

1130

00:36:19,176 --> 00:36:21,846

BACK TO THE FRONT.

1131

00:36:21,913 --> 00:36:23,080

>> THE LINE IS OPEN.

1132

00:36:23,147 --> 00:36:24,181

PLEASE STATE YOUR QUESTION

1133

00:36:24,248 --> 00:36:25,516

ONCE GAIN.

1134

00:36:25,583 --> 00:36:26,050

>> HI.

1135

00:36:26,117 --> 00:36:27,818

CAN YOU HEAR ME THIS TIME?

1136

00:36:27,885 --> 00:36:28,853

>> REWE CAN.

1137

00:36:28,920 --> 00:36:29,620

>> WE CAN.

1138

00:36:29,687 --> 00:36:30,087

OK.

1139

00:36:30,154 --> 00:36:30,555

PEAT.

1140

00:36:30,621 --> 00:36:33,291

SO MY QUESTION IS I AM NOT

1141

00:36:33,357 --> 00:36:34,592

ACTUALLY SURE WHICH WOULD BE

1142

00:36:34,659 --> 00:36:35,993

BEST EQUIPPED TO ANSWER IT.

1143

00:36:36,060 --> 00:36:37,695

I AM WONDERING HOW MACHINE

1144

00:36:37,762 --> 00:36:39,230

IF I PEOPLE WILL BE ABLE TO

1145

00:36:39,297 --> 00:36:40,431

SEE THE LAUNCH ALONG THE

1146

00:36:40,498 --> 00:36:43,367

EAST COAST AND ALSO HOW MANY

1147

00:36:43,434 --> 00:36:44,769

PEOPLE YOU ARE EXPECTING AT

1148

00:36:44,835 --> 00:36:47,605

THE WALLEPS FLIGHT FACILITY

1149

00:36:47,672 --> 00:36:49,040

VISITORS SENATOR WATCH THE

1150

00:36:49,106 --> 00:36:49,507

LARCH.

1151
00:36:49,574 --> 00:36:50,408
THEN ONE LAST THING, WITH

1152
00:36:50,474 --> 00:36:51,642
THE SUNRISE HAPPENING AROUND

1153
00:36:51,709 --> 00:36:52,944
THE SAME TIME IN THE

1154
00:36:53,010 --> 00:36:53,277
MORNING.

1155
00:36:53,344 --> 00:36:53,945
WILL THAT MAKE IT MORE

1156
00:36:54,011 --> 00:36:54,712
DIFFICULT TO SEE THE

1157
00:36:54,779 --> 00:37:08,292
LAUNCH.

1158
00:37:08,359 --> 00:37:10,161
>> THERE WILL BE A LARM

1159
00:37:10,227 --> 00:37:11,495
NUMBER OF PEOPLE TO REVIEW

1160
00:37:11,562 --> 00:37:16,300
THE LAUNCH.

1161
00:37:16,367 --> 00:37:17,735
IF YOU GO TO ON-LINE, THERE

1162
00:37:17,802 --> 00:37:20,171
IS A MISSION STATUS PAIM

1163
00:37:20,237 --> 00:37:21,138

THAT OUR PEOPLE HAVE PUT UP

1164

00:37:21,205 --> 00:37:21,906

THERE FOR YOU.

1165

00:37:21,973 --> 00:37:23,140

ALL SORT OF PICTURE.

1166

00:37:23,207 --> 00:37:24,508

ON THERE THERE IS A VIEWING

1167

00:37:24,575 --> 00:37:27,278

MAP THAT OUR ACE TRA JEK

1168

00:37:27,345 --> 00:37:29,780

STORY CALCULATOR DOES.

1169

00:37:29,847 --> 00:37:31,015

HE BECAME FMOUS.

1170

00:37:31,082 --> 00:37:34,018

ON THERE, HE LISTS AT WHAT

1171

00:37:34,085 --> 00:37:35,786

HA TIME AFTER LIFTOFF AFTER

1172

00:37:35,853 --> 00:37:37,388

THE L TIME YOU WOULD EXPECT

1173

00:37:37,455 --> 00:37:39,724

TO SEE THE ROCKET BREAK

1174

00:37:39,790 --> 00:37:40,925

HORIZON FROM WHERE YOU ARE

1175

00:37:40,992 --> 00:37:42,259

AROUND THE LAUNCH SITE.

1176
00:37:42,326 --> 00:37:44,395
I DO THINK THAT, RE, WE ARE

1177
00:37:44,462 --> 00:37:46,397
FLYING INTO THE SUNRISE.

1178
00:37:46,464 --> 00:37:48,332
SO IT WILL, IT WILL MAKE IT

1179
00:37:48,399 --> 00:37:50,935
HARDER TO VIEW IT.

1180
00:37:51,002 --> 00:37:52,937
FAR DAR RANGE BUT NEAR RANGE

1181
00:37:53,004 --> 00:37:57,308
SHOULD BE PLENTY VIEWABLE.

1182
00:37:57,375 --> 00:37:58,843
>> ANYONE ELSE?

1183
00:37:58,909 --> 00:38:00,678
>> WE HAVE A QUESTION FOR

1184
00:38:00,745 --> 00:38:02,546
STEVEN.

1185
00:38:02,613 --> 00:38:05,149
>> WE WILL TAKE ONE MORE.

1186
00:38:05,216 --> 00:38:06,384
QUESTION IN THE ROOM.

1187
00:38:06,450 --> 00:38:08,552
WELL GEE BACK.

1188
00:38:08,619 --> 00:38:09,420

>> SPACEFLIGHT NOW.

1189

00:38:09,487 --> 00:38:11,155

I HAVE A QUESTION.

1190

00:38:11,222 --> 00:38:15,292

FIRST OF ALL, MAYBE FRANK OR

1191

00:38:15,359 --> 00:38:17,495

KURT GIVE US UPDATE ON HOW

1192

00:38:17,561 --> 00:38:19,730

THINGS LOOK FOR 09 WHEN YOU

1193

00:38:19,797 --> 00:38:21,432

PLAN THAT LAUNCH.

1194

00:38:21,499 --> 00:38:22,900

WHAT IS LOOK UP THAT.

1195

00:38:22,967 --> 00:38:26,937

THEN, ALSO, FOR HARTMAN,

1196

00:38:27,004 --> 00:38:28,406

HAVE YOU MADE A DECISION ON

1197

00:38:28,472 --> 00:38:31,375

WHETHER OR NOT YOU WILL USE

1198

00:38:31,442 --> 00:38:33,277

REUSED BOOSTER FOR THE

1199

00:38:33,344 --> 00:38:35,479

SPACEX MISSION IN DECEMBER

1200

00:38:35,546 --> 00:38:37,048

FANNED SO, YOU KNOW, CAN YOU

1201
00:38:37,114 --> 00:38:38,149
WALK US THROUGH THAT

1202
00:38:38,215 --> 00:38:39,617
THECISION MAKING PROCESS AND

1203
00:38:39,684 --> 00:38:41,085
SOME OF THE SERT I KAIGS YOU

1204
00:38:41,152 --> 00:38:41,786
DID FOR THAT.

1205
00:38:41,852 --> 00:38:42,787
THANKS.

1206
00:38:42,853 --> 00:38:44,655
>> OK.

1207
00:38:44,722 --> 00:38:47,291
>> I WELL START ON THE

1208
00:38:47,358 --> 00:38:47,892
STATUS.

1209
00:38:47,958 --> 00:38:50,261
SO THE SPACECRAFT IS WELL

1210
00:38:50,327 --> 00:38:51,962
LOOPING IN THE TEST PROGRAM

1211
00:38:52,029 --> 00:38:53,431
AT OUR IF SHRILL TY IN

1212
00:38:53,497 --> 00:38:54,832
DULLES AND IT IS ACTUALLY

1213
00:38:54,899 --> 00:38:56,100

JUST ABOUT COMPLETE ABOUT

1214

00:38:56,167 --> 00:38:59,270

THE TEST PROGRAM, SO THAT

1215

00:38:59,336 --> 00:39:00,571

SERVICE MODULE WILL BE

1216

00:39:00,638 --> 00:39:01,472

COMPLETE BEFORE IN THE OF

1217

00:39:01,539 --> 00:39:02,740

THE YEAR AND READY TO SHIP

1218

00:39:02,807 --> 00:39:05,509

AS SOON AS WE NEED PO TO

1219

00:39:05,576 --> 00:39:06,844

SUPPORT A LAUNCH AS EARLY AS

1220

00:39:06,911 --> 00:39:08,212

THE FIRST QUARTER OF NEXT

1221

00:39:08,279 --> 00:39:08,579

YEAR.

1222

00:39:08,646 --> 00:39:12,016

THE CARGO MODULE ITSELF HAS

1223

00:39:12,083 --> 00:39:13,384

SHIPPED FROM OUR FA SILL LE

1224

00:39:13,451 --> 00:39:15,953

TY OUR PROVIDER FACILITY IN

1225

00:39:16,020 --> 00:39:16,987

ITALY SEVERAL MONTHS AGO

1226
00:39:17,054 --> 00:39:18,289
THAT IS ACTUALLY ALREADY IN

1227
00:39:18,355 --> 00:39:20,524
THE H100 HER AT WALLOPS AND

1228
00:39:20,591 --> 00:39:21,792
THAT IS READY TO GO.

1229
00:39:21,859 --> 00:39:23,961
I THINK THE ROCKET IS

1230
00:39:24,028 --> 00:39:26,597
UNDERGOING SPER GRATION IN

1231
00:39:26,664 --> 00:39:27,665
THE HORIZONTAL.

1232
00:39:27,732 --> 00:39:28,199
>> THAT IS RIG.

1233
00:39:28,265 --> 00:39:30,301
>> THOSE WHO TOOK A TOUR OR

1234
00:39:30,367 --> 00:39:32,036
ABOUT TO TAKE TOUR, YOU WILL

1235
00:39:32,103 --> 00:39:34,438
SEE THE VEHICLE IN THE

1236
00:39:34,505 --> 00:39:35,806
FACILITY OUT ON THE ISLAND,

1237
00:39:35,873 --> 00:39:38,309
SO IT IS IN AN ADVANCED

1238
00:39:38,375 --> 00:39:39,844

STATE OF TESTING AND THAT

1239

00:39:39,910 --> 00:39:41,912

WILL FINISH UP IN THIS THE

1240

00:39:41,979 --> 00:39:45,516

JANUARY-FEBRUARY TIMEFRAME.

1241

00:39:45,583 --> 00:39:49,687

>> SPACEX DID ASK US TO, A

1242

00:39:49,754 --> 00:39:51,188

YEAR AGO, ASKED US TO LOOK

1243

00:39:51,255 --> 00:39:52,857

AT THE REUSE OF FALCON

1244

00:39:52,923 --> 00:39:54,658

ROCKET.

1245

00:39:54,725 --> 00:39:56,093

WE ARE IN THE TIME STABLES

1246

00:39:56,160 --> 00:39:58,062

OF DOING THOSE ASSESSMENTS

1247

00:39:58,129 --> 00:40:00,164

AND ON THE NASA SIDE WEED A

1248

00:40:00,231 --> 00:40:03,467

LOT OF MAJOR REVIEWS WE

1249

00:40:03,534 --> 00:40:05,503

TALKED THROUGH AND BUT

1250

00:40:05,569 --> 00:40:07,171

SPACEX HAS ONE MORE

1251
00:40:07,238 --> 00:40:10,241
READINESS REVIEW FOR THAT

1252
00:40:10,307 --> 00:40:11,909
BOOSTER AND BEFORE THEY WILL

1253
00:40:11,976 --> 00:40:14,478
COMMIT TO IT AND READY TO GO

1254
00:40:14,545 --> 00:40:16,213
ON SPACEX 13 AND I WOULD

1255
00:40:16,280 --> 00:40:17,815
PAIM GIN THOSE IN THE FINAL

1256
00:40:17,882 --> 00:40:19,717
DECISION THAT IF THAT COMES

1257
00:40:19,784 --> 00:40:21,418
BACK POSITIVE I TWO SAY THE

1258
00:40:21,485 --> 00:40:25,022
CHANS ARE WE WILL BE FLYING

1259
00:40:25,089 --> 00:40:28,159
SPACEX 13.

1260
00:40:28,225 --> 00:40:28,692
>> OK.

1261
00:40:28,759 --> 00:40:29,593
WE'LL COME BACK TO THE FRONT

1262
00:40:29,660 --> 00:40:30,161
ROW.

1263
00:40:30,227 --> 00:40:32,229

I AM SORRY.

1264

00:40:32,296 --> 00:40:33,030

I AM KIDDING.

1265

00:40:33,097 --> 00:40:35,633

WE'LL GO TO THE SECOND ROW.

1266

00:40:35,699 --> 00:40:36,200

>> HI.

1267

00:40:36,267 --> 00:40:38,435

GOOD MORNING.

1268

00:40:38,502 --> 00:40:40,871

JEREMY COX WITH DAILY TIMES

1269

00:40:40,938 --> 00:40:42,973

IN DELMARVA.

1270

00:40:43,040 --> 00:40:46,410

ORBIT TOLL ATK, WELL, FRANK

1271

00:40:46,477 --> 00:40:53,050

THERE, ABOUT THE EDGAR ZEP

1272

00:40:53,117 --> 00:40:54,552

PATA RESORT THAT SHOWED THE

1273

00:40:54,618 --> 00:40:57,188

COST OF PROVIDING THIS

1274

00:40:57,254 --> 00:40:58,556

MISSION THROUGH COMMERCIAL

1275

00:40:58,622 --> 00:41:01,692

MEANS IS COSTING HALF OR A

1276
00:41:01,759 --> 00:41:02,893
THIRD AS MUCH DEPENDING ON

1277
00:41:02,960 --> 00:41:05,196
THE CARRIER VERSUS WHAT

1278
00:41:05,262 --> 00:41:07,464
THEIR NASA CONDUCTS WITH

1279
00:41:07,531 --> 00:41:09,366
FLIGHTS AND YOUR THOUGHTS ON

1280
00:41:09,433 --> 00:41:10,534
THAT.

1281
00:41:10,601 --> 00:41:14,471
>> NUMBER ONE, I NOT AWARE

1282
00:41:14,538 --> 00:41:15,139
OF HEM.

1283
00:41:15,206 --> 00:41:16,640
IT IS LIKE A COST EVALUATION

1284
00:41:16,707 --> 00:41:17,975
OF WHERE WE WERE TO WHERE WE

1285
00:41:18,042 --> 00:41:19,844
ARE.

1286
00:41:19,910 --> 00:41:22,413
A WHOLE RATIONAL RUNNING

1287
00:41:22,479 --> 00:41:26,417
BEHIND THE PROGRAM AND THE

1288
00:41:26,483 --> 00:41:28,052

CRS PROGRAM IS TO DETERMINE

1289

00:41:28,118 --> 00:41:29,753

COLMERSIONLY IF WE CAN GET A

1290

00:41:29,820 --> 00:41:32,223

MORE AFFORDABLE I WILL SAY

1291

00:41:32,289 --> 00:41:35,259

MASS TO ORBIT RATIO OF WHAT

1292

00:41:35,326 --> 00:41:36,660

WE HAVE BEEN PAYING FOR IN

1293

00:41:36,727 --> 00:41:37,061

THE PAST.

1294

00:41:37,127 --> 00:41:37,828

I HAVE NOT.

1295

00:41:37,895 --> 00:41:39,296

I DOP FOE WHAT HIS NUMBER

1296

00:41:39,363 --> 00:41:39,663

WAS SAY.

1297

00:41:39,730 --> 00:41:41,899

SO I DON'T HAVE A GOOD

1298

00:41:41,966 --> 00:41:43,334

COMPARISON OFF THE TOP OF MY

1299

00:41:43,400 --> 00:41:43,734

HEAD.

1300

00:41:43,801 --> 00:41:48,072

I MEAN, WE THE MISSIONS THIS

1301
00:41:48,138 --> 00:41:50,140
YEAR, ANOTHER ONE WITH THE

1302
00:41:50,207 --> 00:41:52,243
STATE LAUNCH AND WE ARE

1303
00:41:52,309 --> 00:41:53,510
BEING, WE'RE MEETING THE

1304
00:41:53,577 --> 00:41:55,412
SUPPLY SIDE OF WHAT WE NEED

1305
00:41:55,479 --> 00:41:56,580
ON THE INTERNATIONAL SPACE

1306
00:41:56,647 --> 00:41:58,215
STATION AND, AND YOU KNOW,

1307
00:41:58,282 --> 00:41:59,850
IF YOU GO DOOR TO SHUTTLE AP

1308
00:41:59,917 --> 00:42:01,752
WHAT IT WAS ABLE TO DO AND

1309
00:42:01,819 --> 00:42:03,454
CARRY CAR GE AND ALL OF THE

1310
00:42:03,520 --> 00:42:05,122
ASSEMBLY PIECES FOR THE

1311
00:42:05,189 --> 00:42:07,558
SPACE STATION AND THE

1312
00:42:07,625 --> 00:42:09,260
ABILITY TO DO ED'S, YOU

1313
00:42:09,326 --> 00:42:12,062

KNOW, ROBOTIC OPERATIONS,

1314

00:42:12,129 --> 00:42:13,097

INSTALLATIONS, ASSEMBLY,

1315

00:42:13,163 --> 00:42:14,698

THERE MAY BE APPLES TO

1316

00:42:14,765 --> 00:42:16,000

APPLES BUT IF YOU ARE

1317

00:42:16,066 --> 00:42:17,401

LOCKING AT POORLY WHAT WE'RE

1318

00:42:17,468 --> 00:42:19,336

TRYING TO DO AS FAR AS

1319

00:42:19,403 --> 00:42:20,671

GETTING CARPO TO WORK.

1320

00:42:20,738 --> 00:42:22,773

THE CRS MISSION IS OF GREAT

1321

00:42:22,840 --> 00:42:23,807

VALUE.

1322

00:42:23,874 --> 00:42:24,341

>> YEAH.

1323

00:42:24,408 --> 00:42:27,611

WILL ADD, I THOUGHT THE

1324

00:42:27,678 --> 00:42:28,445

CONCLUSIONS AWESOME IN THAT

1325

00:42:28,512 --> 00:42:30,848

REPORT.

1326
00:42:30,915 --> 00:42:32,216
>> IF YOU LOOK AT HOW WE GOT

1327
00:42:32,283 --> 00:42:32,850
HERE.

1328
00:42:32,917 --> 00:42:34,385
PIT WAS, IT WAS THE

1329
00:42:34,451 --> 00:42:36,587
GOVERNMENT AND IT WAS

1330
00:42:36,654 --> 00:42:37,655
PRIVATE INDUSTRY CO

1331
00:42:37,721 --> 00:42:38,856
INVESTIGATE AND DEVELOPING

1332
00:42:38,923 --> 00:42:41,425
THE CAPABILITY AND TO GET TO

1333
00:42:41,492 --> 00:42:42,493
CAR F TO THE INTERNATIONAL

1334
00:42:42,559 --> 00:42:43,560
SPACE STATION ON A

1335
00:42:43,627 --> 00:42:44,528
COMMERCIAL SERVICE AND

1336
00:42:44,595 --> 00:42:45,362
SERVICE-TYPE CONTRACT.

1337
00:42:45,429 --> 00:42:47,965
AND I THINK, I THINK, THOSE

1338
00:42:48,032 --> 00:42:49,500

NUMBERS SORT OF COME OUT TO

1339

00:42:49,566 --> 00:42:50,601

DISCUSS WITH THAT PROGRAM.

1340

00:42:50,668 --> 00:42:51,902

THINK EVEN MORE THAN THAT,

1341

00:42:51,969 --> 00:42:54,972

EN ADDITION TO THAT, WE

1342

00:42:55,039 --> 00:42:56,607

CONTINUE TO INVESTIGATE IN

1343

00:42:56,674 --> 00:42:58,142

THING US IN SPACECRAFT AND

1344

00:42:58,208 --> 00:42:59,977

THE ROCKET TO IN ABLE TO

1345

00:43:00,044 --> 00:43:01,679

PROVIDE MORE TO CUR

1346

00:43:01,745 --> 00:43:03,681

CUSTOMERS IN TERMS OF CARGO

1347

00:43:03,747 --> 00:43:04,982

DELIVERY CAPABILITY, THE

1348

00:43:05,049 --> 00:43:07,051

ABILITY TO BE THE STATION

1349

00:43:07,117 --> 00:43:07,751

AND FLY AROUND AFTER THAT TO

1350

00:43:07,818 --> 00:43:08,752

CONDUCT ALL SORTS OF

1351
00:43:08,819 --> 00:43:10,854
SCIENTIFIC EXPERIMENTS SO I

1352
00:43:10,921 --> 00:43:12,389
THINK IT IS A COLMERSION

1353
00:43:12,456 --> 00:43:13,257
MODEL THAT THERE IS A

1354
00:43:13,324 --> 00:43:14,591
SERVICE THERE AND THAT IS

1355
00:43:14,658 --> 00:43:15,492
PAYING US TO PROVIDE A

1356
00:43:15,559 --> 00:43:17,027
SERVICE WE PROVIDE MORE

1357
00:43:17,094 --> 00:43:18,495
CAPABILITY AND THEY CONTINUE

1358
00:43:18,562 --> 00:43:20,731
TO DO THAT IN ZI INCREASED

1359
00:43:20,798 --> 00:43:22,733
CAP K SO IT IS A WHIP-WIN

1360
00:43:22,800 --> 00:43:23,901
ALL AMP.

1361
00:43:23,968 --> 00:43:24,835
THANKS.

1362
00:43:24,902 --> 00:43:25,269
>> THANK.

1363
00:43:25,336 --> 00:43:25,936

WE'RE GOING TO THE FRONT ROW

1364

00:43:26,003 --> 00:43:26,437

THIS TIME.

1365

00:43:26,503 --> 00:43:27,438

>> THANKS.

1366

00:43:27,504 --> 00:43:29,006

>> MY NAME IS BRIAN MEYER

1367

00:43:29,073 --> 00:43:31,041

WITH THE ORBITAL SOCIAL

1368

00:43:31,108 --> 00:43:31,775

GROUP.

1369

00:43:31,842 --> 00:43:33,444

I HAVE A QUICK TWO-PART

1370

00:43:33,510 --> 00:43:34,311

QUESTION.

1371

00:43:34,378 --> 00:43:37,614

ONE, THE FIRST ONE FOR

1372

00:43:37,681 --> 00:43:38,382

MR. DOINGENSON.

1373

00:43:38,449 --> 00:43:38,916

WHAT'S THE EXPECTED

1374

00:43:38,983 --> 00:43:40,084

TEMPERATURE AT THE TIME OF

1375

00:43:40,150 --> 00:43:40,985

LAUNCH.

1376

00:43:41,051 --> 00:43:45,255

SECOND, HOW FAR DOES THE

1377

00:43:45,322 --> 00:43:46,190

LAUNCH WINDOW, TEN

1378

00:43:46,256 --> 00:43:46,557

TOMORROW.

1379

00:43:46,623 --> 00:43:46,957

THANK YOU.

1380

00:43:47,024 --> 00:43:48,125

>> EACH WINDOW IS

1381

00:43:48,192 --> 00:43:49,293

APPROXIMATELY FIVE MINUTES

1382

00:43:49,360 --> 00:43:50,594

AND TEMPERATURE TOMORROW I

1383

00:43:50,661 --> 00:43:53,397

BLEB THEY ARE REPORTING

1384

00:43:53,464 --> 00:43:54,431

ABOUT 25 RIG AROUND THERE.

1385

00:43:54,498 --> 00:43:55,132

25-30.

1386

00:43:55,199 --> 00:43:59,937

2:00 WE HAVE A FIVE-MINUTE

1387

00:44:00,004 --> 00:44:01,205

WINDOW.

1388

00:44:01,271 --> 00:44:04,708

THEY INCREMENT GO BACK FIVE

1389

00:44:04,775 --> 00:44:06,043

MINUTES EVERY HOUR EVERY

1390

00:44:06,110 --> 00:44:07,077

LAUNCH ATTEMPT.

1391

00:44:07,144 --> 00:44:08,345

DON'T HAVE THOSE IN FRONT OF

1392

00:44:08,412 --> 00:44:08,846

ME.

1393

00:44:08,912 --> 00:44:10,547

WE HAVE CLEARANCE IN PLACE,

1394

00:44:10,614 --> 00:44:11,882

APPROVAL IN PLACE FROM THE

1395

00:44:11,949 --> 00:44:13,884

FAA AND OUR PARTNERS,

1396

00:44:13,951 --> 00:44:15,386

EXTERNAL PARTNERS AND GO OUT

1397

00:44:15,452 --> 00:44:17,388

AS FAR AS THE 21st?

1398

00:44:17,454 --> 00:44:19,156

>> YES.

1399

00:44:19,223 --> 00:44:20,391

>> IF WE WOULDN'T LAUNCH

1400

00:44:20,457 --> 00:44:21,425

TOMORROW, THE NEXT DAY WE

1401
00:44:21,492 --> 00:44:22,893
WOULD LAUNCH 23 MINCE

1402
00:44:22,960 --> 00:44:25,529
EARLIER.

1403
00:44:25,596 --> 00:44:26,697
MINUTES EARLY.

1404
00:44:26,764 --> 00:44:27,865
>> WE HAVE A QUESTION IN THE

1405
00:44:27,931 --> 00:44:28,432
BACK.

1406
00:44:28,499 --> 00:44:29,266
>> HI.

1407
00:44:29,333 --> 00:44:31,735
I AM ANNA WITH NASA SOCIAL.

1408
00:44:31,802 --> 00:44:35,072
MY QUESTION IS HOW EXACTLY

1409
00:44:35,139 --> 00:44:42,413
DO THE IDEAS, LIKE WHO COMES

1410
00:44:42,479 --> 00:44:44,615
UP WITH THE IDEA FOR WHAT TO

1411
00:44:44,681 --> 00:44:46,850
DO AND WHAT LAUNCHES WE'LL

1412
00:44:46,917 --> 00:44:47,418
ACCOMPLISH?

1413
00:44:47,484 --> 00:44:48,952

IS THERE A ROOM OF

1414

00:44:49,019 --> 00:44:50,587
ENGINEERS.

1415

00:44:50,654 --> 00:44:53,190
LIKE WHERE DID THE IDEA

1416

00:44:53,257 --> 00:44:53,824
ORIGINATE.

1417

00:44:53,891 --> 00:45:01,098
THAT IS WHAT AM ASKING.

1418

00:45:01,165 --> 00:45:02,966
>> THAT IS OUR SIDE OF IT.

1419

00:45:03,033 --> 00:45:04,201
OBVIOUSLY, YOU KNOW, CREW

1420

00:45:04,268 --> 00:45:05,502
MEMBERS ARE UP THERE.

1421

00:45:05,569 --> 00:45:07,638
YOU KNOW THEY FEED FOOD AND

1422

00:45:07,704 --> 00:45:09,773
WATER AND SUPPLY.

1423

00:45:09,840 --> 00:45:11,508
WE HAVE SPARE PART, CARGO,

1424

00:45:11,575 --> 00:45:12,676
THINGS BREAK.

1425

00:45:12,743 --> 00:45:13,310
SO WE NEED SOME SPARES.

1426

00:45:13,377 --> 00:45:15,279

WE GOT A LOT OF COMPLEX

1427

00:45:15,345 --> 00:45:16,413

HARDWARE SUCH AS EQUIPMENT

1428

00:45:16,480 --> 00:45:18,315

THAT WE NEED TO ALWAYS BE

1429

00:45:18,382 --> 00:45:20,918

REPLENISHING.

1430

00:45:20,984 --> 00:45:23,020

WE DEMONSTRATE NEW

1431

00:45:23,087 --> 00:45:24,888

TECHNOLOGIES ONBOARD THE

1432

00:45:24,955 --> 00:45:25,789

INTERNATIONAL SPACE STATION

1433

00:45:25,856 --> 00:45:26,957

SO WE ARE CONSTANTLY FLYING

1434

00:45:27,024 --> 00:45:28,625

THOSE THEN WE TRY TO

1435

00:45:28,692 --> 00:45:31,628

ALLOCATE AND PROVIDE AS MUCH

1436

00:45:31,695 --> 00:45:35,499

CREW TIME ON ORBIT AND UP

1437

00:45:35,566 --> 00:45:37,634

MASS AS POSSIBLE AND TO HAVE

1438

00:45:37,701 --> 00:45:40,137

A RYE BEEN RESEARCH PROGRAM

1439

00:45:40,204 --> 00:45:41,405

ONBOARD THE INTERNATIONAL

1440

00:45:41,472 --> 00:45:41,872

SPACE STATION.

1441

00:45:41,939 --> 00:45:45,476

SO THERE IS PRIORITIES.

1442

00:45:45,542 --> 00:45:47,511

DIFFERENT TEAMS WITHIN THE

1443

00:45:47,578 --> 00:45:48,612

INTERNATIONAL SPACE STATION

1444

00:45:48,679 --> 00:45:49,980

PROGRAM HAVE THEIR

1445

00:45:50,047 --> 00:45:51,181

PRIORITIES AND WATCHING VILL

1446

00:45:51,248 --> 00:45:52,316

URS OF THE HARDWARE.

1447

00:45:52,382 --> 00:45:53,183

WE HAVE THEM INTO ARE

1448

00:45:53,250 --> 00:45:55,619

TRACKING CONSUMABLE AND ALL

1449

00:45:55,686 --> 00:45:57,221

KIND OF KIND OF MOLD

1450

00:45:57,287 --> 00:45:59,289

TOGETHER AND, AND WHEN WE

1451
00:45:59,356 --> 00:46:00,591
TACKED ABOUT IT EARLIER.

1452
00:46:00,657 --> 00:46:02,159
BEEN YOU HAVE FOUR TO FIVE

1453
00:46:02,226 --> 00:46:03,594
OR SIX FLIGHTS IN A GIVEN

1454
00:46:03,660 --> 00:46:06,463
YEAR YOU CAN PRIORITY ON

1455
00:46:06,530 --> 00:46:09,066
RISK OR WHAT REALLY NEEDS TO

1456
00:46:09,133 --> 00:46:10,534
GO FIRST AND WE ARE WILLING

1457
00:46:10,601 --> 00:46:11,935
TO TAKE SOME RISKS I WOULD

1458
00:46:12,002 --> 00:46:14,304
SAY ON THE SYSTEM SIDE IF

1459
00:46:14,371 --> 00:46:15,639
OUR COMMUNITY REALLY HAS A

1460
00:46:15,706 --> 00:46:16,907
LOT OF RESEARCH THAT THEY

1461
00:46:16,974 --> 00:46:17,741
WANT TO GET UP THERE.

1462
00:46:17,808 --> 00:46:20,878
YOU KNOW, OUR PRIMARY GE

1463
00:46:20,944 --> 00:46:22,012

GOAL IS TO OUT LOSES THE

1464

00:46:22,079 --> 00:46:23,046

INTERNATIONAL SPACE STATION

1465

00:46:23,113 --> 00:46:24,815

SO AND TO KEEP OUR CREW OF

1466

00:46:24,882 --> 00:46:26,150

FOUR VERY, VERY YOU KNOW,

1467

00:46:26,216 --> 00:46:28,519

VERY BUSY ALL THE TIME DOING

1468

00:46:28,585 --> 00:46:30,687

RESEARCH AND HAS PROVEN OUT

1469

00:46:30,754 --> 00:46:32,789

TO BE THE CASE IN THE LAST

1470

00:46:32,856 --> 00:46:34,525

THREE OR FOUR MONTH ON A

1471

00:46:34,591 --> 00:46:35,826

WEEKLY PASSES ABOUT SIS WE

1472

00:46:35,893 --> 00:46:37,060

ARE BREAKING THE RECORD ON

1473

00:46:37,127 --> 00:46:38,662

THE NUMBER EVER HOURS WE

1474

00:46:38,729 --> 00:46:40,130

HAVE BEENLE LOW KEATING TO

1475

00:46:40,197 --> 00:46:42,166

THE RESEARCH SO IT IS, WE

1476
00:46:42,232 --> 00:46:43,934
KIND OF DO IT EVERY MISSION

1477
00:46:44,001 --> 00:46:45,602
AND WE LOOK AT THOUGH

1478
00:46:45,669 --> 00:46:47,271
PRIORITY AND THE NEEDS AND

1479
00:46:47,337 --> 00:46:50,107
AT TIME WE MAKE DECISION ON

1480
00:46:50,174 --> 00:46:53,443
THE NEXT FLIGHT AND GIVE

1481
00:46:53,510 --> 00:46:54,411
THAT OPPORTUNITY.

1482
00:46:54,478 --> 00:46:55,679
S THAT HOW IT GOES.

1483
00:46:55,746 --> 00:46:57,881
EYE CAN ADD TO WHAT DAN SAYS

1484
00:46:57,948 --> 00:47:00,584
FROM A RESEARCH PERSPECTIVE

1485
00:47:00,651 --> 00:47:01,485
HOW WE DETERMINE WHAT WE DO

1486
00:47:01,552 --> 00:47:03,187
UP THERE IS DETERMINED BUY

1487
00:47:03,253 --> 00:47:04,321
OUR SPONSORS.

1488
00:47:04,388 --> 00:47:09,393

WE HAVE SEVERAL SPONSORS.

1489

00:47:09,459 --> 00:47:10,527

THE SUM OF NATIONAL LAB,

1490

00:47:10,594 --> 00:47:12,095

THEY DECIDE THEY HAVE A PORT

1491

00:47:12,162 --> 00:47:13,630

TOLL YO THAT THEY DECIDE

1492

00:47:13,697 --> 00:47:16,066

WHAT IS IMPORTANT TO THEM.

1493

00:47:16,133 --> 00:47:17,734

AND WE HAVE SPACE SPONSORED

1494

00:47:17,801 --> 00:47:20,237

RESEARCH AND THAT COULD BE

1495

00:47:20,304 --> 00:47:22,372

THROUGH THE SCIENCE MISSION,

1496

00:47:22,439 --> 00:47:23,740

THE HUMAN RESEARCH PROGRAM

1497

00:47:23,807 --> 00:47:27,578

OR THE SPACE TECHNOLOGY

1498

00:47:27,644 --> 00:47:28,579

MISSION DIRECT IT A ATE AND

1499

00:47:28,645 --> 00:47:29,846

DECIDE WHAT RESEARCH IS

1500

00:47:29,913 --> 00:47:31,048

IMPORTANT TO THEM, THEN WE

1501
00:47:31,114 --> 00:47:32,416
HAVE OUR INTERNATIONAL

1502
00:47:32,482 --> 00:47:33,684
PARTNERS THAT ALSO DECIDE

1503
00:47:33,750 --> 00:47:36,253
WHAT IS IMPORTANT TO THEM

1504
00:47:36,320 --> 00:47:37,654
FROM A MEASAL GRABBAL

1505
00:47:37,721 --> 00:47:38,288
PERSPECTIVE SO THAT HE IS

1506
00:47:38,355 --> 00:47:41,258
HOW THE RESEARCHERS DO

1507
00:47:41,325 --> 00:47:41,925
THAT.

1508
00:47:41,992 --> 00:47:43,360
>> THANK YOU.

1509
00:47:43,427 --> 00:47:44,995
>> WE'LL GO TO THE BACK AND

1510
00:47:45,062 --> 00:47:47,631
COME BACK UP TO THE FRONT

1511
00:47:47,698 --> 00:47:48,532
FOR QUESTION.

1512
00:47:48,599 --> 00:47:49,733
>> YEAH.

1513
00:47:49,800 --> 00:47:53,470

I AM WITH TIM GREEN WITH THE

1514

00:47:53,537 --> 00:47:55,239

PARK ELEMENTARY SCHOOL AND

1515

00:47:55,305 --> 00:47:56,707

IN OUR PROGRAM, WE TALKED TO

1516

00:47:56,773 --> 00:47:58,008

OUR STUDENTS ABOUT THE

1517

00:47:58,075 --> 00:47:59,409

PROCESS BEING IMPORTANT AND

1518

00:47:59,476 --> 00:48:02,879

LOOKING AT LONG RANGE PLAN

1519

00:48:02,946 --> 00:48:06,049

SOG MY QUESTION IS TO MATH M

1520

00:48:06,116 --> 00:48:06,917

AP WHO JEB ELSE MAY BE ABLE

1521

00:48:06,984 --> 00:48:07,384

TO ANSWER THIS.

1522

00:48:07,451 --> 00:48:09,553

WHAT IS THE TIMEFRAME?

1523

00:48:09,620 --> 00:48:11,455

WHEN THEY START TO START THE

1524

00:48:11,521 --> 00:48:12,456

PROCESS AND DISCUSS WITH

1525

00:48:12,522 --> 00:48:13,123

THEY ARE GOING TO DO WITH

1526
00:48:13,190 --> 00:48:14,958
THE MISSION UNTIL LAUNCH

1527
00:48:15,025 --> 00:48:15,459
DAY.

1528
00:48:15,525 --> 00:48:17,794
>> IN REGARDS TO A RESEARCH

1529
00:48:17,861 --> 00:48:18,895
AND PAYLOAD.

1530
00:48:18,962 --> 00:48:19,896
>> YEAH.

1531
00:48:19,963 --> 00:48:20,197
YEAH.

1532
00:48:20,264 --> 00:48:21,131
>> YOU MAY WANT TO TAKE THAT

1533
00:48:21,198 --> 00:48:21,765
ONE.

1534
00:48:21,832 --> 00:48:23,834
>> THANK YOU.

1535
00:48:23,900 --> 00:48:26,236
>> SO ITS.

1536
00:48:26,303 --> 00:48:27,971
SO IT GENES.

1537
00:48:28,038 --> 00:48:29,006
THE NATIONAL LAB THEY CAN

1538
00:48:29,072 --> 00:48:30,741

DID ANYTHING AS QUICK AND IN

1539

00:48:30,807 --> 00:48:32,376

FACT IF YOU COULD CORRECT ME

1540

00:48:32,442 --> 00:48:34,244

AS I AM WRONG AS QUICK AS

1541

00:48:34,311 --> 00:48:36,346

SIX MONTHS AND AS FAR OUT AS

1542

00:48:36,413 --> 00:48:37,781

A YEAR OR TWO.

1543

00:48:37,848 --> 00:48:39,116

BUT WE START THE RESEARCH

1544

00:48:39,182 --> 00:48:40,384

PLANNING PROCESS MAYBE A

1545

00:48:40,450 --> 00:48:42,552

YEAR AND A HALF OUT.

1546

00:48:42,619 --> 00:48:44,388

AND IN TERMS OF LOOKING

1547

00:48:44,454 --> 00:48:44,888

FORWARD.

1548

00:48:44,955 --> 00:48:45,856

>> OK.

1549

00:48:45,922 --> 00:48:47,024

>> YOU BARRED.

1550

00:48:47,090 --> 00:48:48,458

FROM THE EDUCATIONAL SIDE.

1551
00:48:48,525 --> 00:48:51,094
YOU KNOW, THIS IS COME LEX.

1552
00:48:51,161 --> 00:48:52,796
DOES IT NEED POWER?

1553
00:48:52,863 --> 00:48:53,730
DOES IT NEED COMMUNICATION

1554
00:48:53,797 --> 00:48:54,865
LINKS WITH THE GROUND OR

1555
00:48:54,931 --> 00:48:56,967
SIMPLE PAYLOAD.

1556
00:48:57,034 --> 00:48:58,635
THOSE COULD BE DONE IN

1557
00:48:58,702 --> 00:48:59,336
MONTHS.

1558
00:48:59,403 --> 00:49:00,704
WE AGAIN, WITH THE NUMBER OF

1559
00:49:00,771 --> 00:49:02,072
VEHICLES WE HAVE FLYING WE

1560
00:49:02,139 --> 00:49:03,440
COULD USE EASTLY DO

1561
00:49:03,507 --> 00:49:04,708
SOMETHING, WHICH SAY, FROM

1562
00:49:04,775 --> 00:49:06,310
THE TIME WE APPROVED IT

1563
00:49:06,376 --> 00:49:07,644

UNTIL WEFULLY IT.

1564

00:49:07,711 --> 00:49:09,513

KITE BE ON THE HORDER OF THE

1565

00:49:09,579 --> 00:49:09,946

MONTHS.

1566

00:49:10,013 --> 00:49:11,048

AND WE HAVE DONE THAT IN THE

1567

00:49:11,114 --> 00:49:17,187

PAST.

1568

00:49:17,254 --> 00:49:20,457

>> TWO ROCKET QUESTIONS.

1569

00:49:20,524 --> 00:49:21,625

FLIGHT FOR GOODNESS WANTS TO

1570

00:49:21,692 --> 00:49:23,660

KNOW HOW MUCH HORSEPOWER THE

1571

00:49:23,727 --> 00:49:28,365

ROCKET USES DURING A LAUNCH

1572

00:49:28,432 --> 00:49:32,336

THEN RM NY, WHAT THE TWO

1573

00:49:32,402 --> 00:49:33,837

ENGENS, CAN IT GET TO SPACE

1574

00:49:33,904 --> 00:49:39,076

IF ONE ENGINE GUESS OUT.

1575

00:49:39,142 --> 00:49:41,278

>> I DON'T KNOW THE ENERGY

1576
00:49:41,345 --> 00:49:42,512
CONVERTED INTO HORSEPOWER

1577
00:49:42,579 --> 00:49:45,582
BUT IT IS, IT IS ROUGHLY

1578
00:49:45,649 --> 00:49:48,585
UPWARDS OF 700,000 POUNDS OF

1579
00:49:48,652 --> 00:49:52,522
THRUST AT LIFT JUF AND WE

1580
00:49:52,589 --> 00:49:54,591
MAINTAIN THAT LEVEL AND THE

1581
00:49:54,658 --> 00:49:56,159
ROCKET GETS LIGHT SORE WE

1582
00:49:56,226 --> 00:49:57,894
GET A LITTLE INCREASE IN

1583
00:49:57,961 --> 00:49:58,962
ACCELERATION AS WE GO

1584
00:49:59,029 --> 00:49:59,696
ALONG.

1585
00:49:59,763 --> 00:50:01,031
WHAT WAS THE SECOND

1586
00:50:01,098 --> 00:50:02,032
QUESTION?

1587
00:50:02,099 --> 00:50:03,200
>> WHAT IF ONE OF THE

1588
00:50:03,266 --> 00:50:04,501

ENGINES GUESS SNOUT.

1589

00:50:04,568 --> 00:50:06,536

>> WE DO NOT HAVE ENGINE OUT

1590

00:50:06,603 --> 00:50:07,637

CAPABILITY.

1591

00:50:07,704 --> 00:50:08,839

THAT WOULD BE END OF

1592

00:50:08,905 --> 00:50:11,274

MISSION.

1593

00:50:11,341 --> 00:50:19,116

>> THANK YOU.

1594

00:50:19,182 --> 00:50:20,984

>> WHAT PROCESS MADE IN

1595

00:50:21,051 --> 00:50:22,886

IDENTIFYING OTHER CUSTOMERS

1596

00:50:22,953 --> 00:50:24,788

WHETHER THEY BE CIVIL OR

1597

00:50:24,855 --> 00:50:25,455

COMMERCIAL.

1598

00:50:25,522 --> 00:50:27,090

>> WELL, WILL NOT GO INTO

1599

00:50:27,157 --> 00:50:28,658

SPECIFICS.

1600

00:50:28,725 --> 00:50:31,094

THAT IS PROPRIETARY IN TERMS

1601
00:50:31,161 --> 00:50:33,296
OF THE BIDS WE PROVIDE.

1602
00:50:33,363 --> 00:50:35,899
WE ARE INTERACTING WITH THE

1603
00:50:35,966 --> 00:50:37,534
CIVIL AND COMMERCIAL MARKETS

1604
00:50:37,601 --> 00:50:42,873
AND WE ARE OFFERING

1605
00:50:42,939 --> 00:50:43,273
ENTIRETY.

1606
00:50:43,340 --> 00:50:43,974
>> THANK YOU.

1607
00:50:44,040 --> 00:50:45,809
>> WE HAVE ANOTHER QUESTION

1608
00:50:45,876 --> 00:50:53,049
FROM KIM KRAMER.

1609
00:50:53,116 --> 00:50:55,919
>> SURE.

1610
00:50:55,986 --> 00:50:58,555
WHAT ARE THE PRIMARY

1611
00:50:58,622 --> 00:51:00,657
CONCERNS STARTING IN 20.

1612
00:51:00,724 --> 00:51:06,797
CAMILLE, CAN YOU TALK ABOUT

1613
00:51:06,863 --> 00:51:07,731

THE HABITAT.

1614

00:51:07,798 --> 00:51:08,732

THANK YOU.

1615

00:51:08,799 --> 00:51:11,535

>> WELL, FIRST OF ALL, WITH

1616

00:51:11,601 --> 00:51:12,969

REGARD THOUGH TEMPERATURE

1617

00:51:13,036 --> 00:51:13,503

SITUATION.

1618

00:51:13,570 --> 00:51:14,704

THREE MAIN CAVITIES OF THE

1619

00:51:14,771 --> 00:51:16,606

ROCKET.

1620

00:51:16,673 --> 00:51:17,974

THERES A SPACE BETWEEN THE

1621

00:51:18,041 --> 00:51:21,211

TWO TANKS THEN THOSE THREE

1622

00:51:21,278 --> 00:51:23,313

VOLUMES ARE CONDITIONED WITH

1623

00:51:23,380 --> 00:51:24,347

COOLED AIR-CONDITIONING

1624

00:51:24,414 --> 00:51:26,283

SYSTEM THAT PROVIDES HEATED

1625

00:51:26,349 --> 00:51:28,919

OR COOLED AIR AND HUMIDITY

1626
00:51:28,985 --> 00:51:29,453
CONTROL.

1627
00:51:29,519 --> 00:51:30,654
WE PUMP A LOT OF AIR THAN

1628
00:51:30,720 --> 00:51:32,222
THAT KEEPS IT IN THERE NICE

1629
00:51:32,289 --> 00:51:33,890
AND CONDITIONED.

1630
00:51:33,957 --> 00:51:35,659
INCLUDING CYGNUS, INCLUDING

1631
00:51:35,725 --> 00:51:38,795
THE ROCKET MOTOR, BATTERY,

1632
00:51:38,862 --> 00:51:40,063
ORDINANCE, RF GER AND

1633
00:51:40,130 --> 00:51:42,766
ANYTHING THAT COULD BE A

1634
00:51:42,833 --> 00:51:44,067
WORRY IN TERMS OF

1635
00:51:44,134 --> 00:51:44,768
TEMPERATURES.

1636
00:51:44,835 --> 00:51:46,536
NOW THERE ARE SOME

1637
00:51:46,603 --> 00:51:47,904
SEPARATING JOINS THAT ARE

1638
00:51:47,971 --> 00:51:50,240

ALSO EXPOSED TO THE EXTERIOR

1639

00:51:50,307 --> 00:51:51,775

SURFACE OF THE ROCKETS SO

1640

00:51:51,842 --> 00:51:53,643

THOSE DO GET EXPOSE SOD WE

1641

00:51:53,710 --> 00:51:55,245

HAVE DONE A LOT OF ANALYSIS

1642

00:51:55,312 --> 00:51:57,514

ANTES ON THOSE JOINTS AND

1643

00:51:57,581 --> 00:51:58,982

ONE SIDE WILL BE WARM.

1644

00:51:59,049 --> 00:51:59,983

THE OUTSIDE WOULD BE

1645

00:52:00,050 --> 00:52:00,517

COOLER.

1646

00:52:00,584 --> 00:52:03,553

WE FIRED IT DOWN TO THROM

1647

00:52:03,620 --> 00:52:06,356

TORS AND WE HAVE A LOT OF

1648

00:52:06,423 --> 00:52:07,090

MARGIN.

1649

00:52:07,157 --> 00:52:10,126

>> AND WHAT WE ARE SENDING

1650

00:52:10,193 --> 00:52:12,729

UP IS WHAT IS CALLED ANIMAL

1651
00:52:12,796 --> 00:52:14,130
EXPLOSION MODULE THAT IS

1652
00:52:14,197 --> 00:52:15,365
HABITAT THAT THE ANIMALS

1653
00:52:15,432 --> 00:52:16,800
WILL LIB IN ONCE THEY COME

1654
00:52:16,867 --> 00:52:20,971
UP BUT NOT COMING UP ON THIS

1655
00:52:21,037 --> 00:52:23,139
FLIGHT BUT PREPOSITIONED

1656
00:52:23,206 --> 00:52:23,807
HARD WHICH TO GET READY FOR

1657
00:52:23,874 --> 00:52:26,042
THEM TO COME UP ON THE NEXT

1658
00:52:26,109 --> 00:52:26,610
FLIGHT.

1659
00:52:26,676 --> 00:52:28,178
>> A QUESTION IN THE FRONT

1660
00:52:28,245 --> 00:52:33,083
ROW.

1661
00:52:33,149 --> 00:52:37,220
THE ARE ABOUT ITAL VEHICLE

1662
00:52:37,287 --> 00:52:39,456
AND I WAS IN DERING IF YOUR

1663
00:52:39,523 --> 00:52:41,892

PLANS FOR THE VOK ITSELF AND

1664

00:52:41,958 --> 00:52:44,728

TO RECOVER THE SERVICE OR

1665

00:52:44,794 --> 00:52:45,428

SYSTEM OTHER IN TENSIONS FOR

1666

00:52:45,495 --> 00:52:46,196

IT.

1667

00:52:46,263 --> 00:52:47,731

>> WELL, SO ONCE WE COME LET

1668

00:52:47,797 --> 00:52:49,799

THE PRIMARY MISSION THE

1669

00:52:49,866 --> 00:52:57,040

CARGO WILLFULLY AWAY.

1670

00:52:57,107 --> 00:53:00,610

THEN WE'LL FLY AWAY AND

1671

00:53:00,677 --> 00:53:03,680

DEPLO AND THEN WE'LL IN THE

1672

00:53:03,747 --> 00:53:06,349

MISSION BY RETENNERRING THIS

1673

00:53:06,416 --> 00:53:07,918

OVER THE PACIFIC OCEAN.

1674

00:53:07,984 --> 00:53:09,653

CYGNUS IS DESIGNED TO

1675

00:53:09,719 --> 00:53:11,755

MAXIMIZE THE AMOUNT OF ARE K

1676
00:53:11,821 --> 00:53:12,556
CARGO WE CAN DELIVER SO

1677
00:53:12,622 --> 00:53:13,723
THERE IS EXCHANGE THERE

1678
00:53:13,790 --> 00:53:15,091
WHETHER YOU WOULD LIKE TO

1679
00:53:15,158 --> 00:53:18,562
END TER SOMETHING OR TAKE A

1680
00:53:18,628 --> 00:53:21,631
LOT TO COB SERT THAT INTO

1681
00:53:21,698 --> 00:53:23,133
CAR DOSE NASA THAT'S THE

1682
00:53:23,199 --> 00:53:24,467
FOCUS OF THE CYGNUS

1683
00:53:24,534 --> 00:53:26,303
CAPABILITY.

1684
00:53:26,369 --> 00:53:26,803
>> OK.

1685
00:53:26,870 --> 00:53:28,004
WE'LL TAKE A QUESTION THEN

1686
00:53:28,071 --> 00:53:30,440
WE HAVE ONE MORE TIME FOR

1687
00:53:30,507 --> 00:53:31,408
QUESTION IN THE ROOM.

1688
00:53:31,474 --> 00:53:32,842

>> WHAT IS BEING DONE TO

1689

00:53:32,909 --> 00:53:34,177

KEEP BOATS OUT OF THE RANGE

1690

00:53:34,244 --> 00:53:37,247

AREA.

1691

00:53:37,314 --> 00:53:43,086

>> YEAH.

1692

00:53:43,153 --> 00:53:44,854

>> THE EFFORTS START MONTHS

1693

00:53:44,921 --> 00:53:45,589

INNED A SCRAPS.

1694

00:53:45,655 --> 00:53:46,556

WE HAVE GREAT GUY THAT

1695

00:53:46,623 --> 00:53:49,826

REACHES HIT TO PUBLIC AND WE

1696

00:53:49,893 --> 00:53:53,863

HAVE I THINK FOUR TO FIVE

1697

00:53:53,930 --> 00:53:54,898

SPECIALS POSITIONED

1698

00:53:54,965 --> 00:53:55,932

TYPICALLY THROUGHOUT THE

1699

00:53:55,999 --> 00:54:00,203

HAZARD PATTERN AND WE HAVE

1700

00:54:00,270 --> 00:54:01,504

OUR FIXED-WING AIRCRAFT AND

1701
00:54:01,571 --> 00:54:03,206
DOING AIRBORNE SURVEILLANCE

1702
00:54:03,273 --> 00:54:06,843
AND ONE THAT IS DOING THE

1703
00:54:06,910 --> 00:54:07,344
BACK.

1704
00:54:07,410 --> 00:54:09,779
SO WE START OFF WITH

1705
00:54:09,846 --> 00:54:10,914
SURVEILLANCE EARLY IN THE

1706
00:54:10,981 --> 00:54:12,182
COUPE AND WE WILL BE TALKING

1707
00:54:12,248 --> 00:54:13,550
TO THEM AS MUCH AS

1708
00:54:13,617 --> 00:54:16,286
POSSIBLE.

1709
00:54:16,353 --> 00:54:18,154
I LIKE TO SAY IF WE HAVE

1710
00:54:18,221 --> 00:54:20,256
GOTTEN A LOT OF HELP FROM

1711
00:54:20,323 --> 00:54:22,659
THE LOCAL FISHERMAN, TO TELL

1712
00:54:22,726 --> 00:54:24,094
EBB, THIS IS A FIVE MINUTE

1713
00:54:24,160 --> 00:54:24,628

WINDOW.

1714

00:54:24,694 --> 00:54:26,096

WE NEED YOU TO CITY OUT FOR

1715

00:54:26,162 --> 00:54:26,963

FIVE MINUTES.

1716

00:54:27,030 --> 00:54:28,298

WE KEEP OUR FINGERS

1717

00:54:28,365 --> 00:54:30,467

CROSSED.

1718

00:54:30,533 --> 00:54:32,369

>> WE BILL KEP OUR FINGERS

1719

00:54:32,435 --> 00:54:33,003

CROSSED.

1720

00:54:33,069 --> 00:54:33,837

>> WE HAVE ANOTHER QUESTION

1721

00:54:33,903 --> 00:54:35,972

IN THE RAM.

1722

00:54:36,039 --> 00:54:38,408

ROOM.

1723

00:54:38,475 --> 00:54:39,275

>> HI.

1724

00:54:39,342 --> 00:54:42,412

I AM TRACY FROM NATION

1725

00:54:42,479 --> 00:54:43,847

SOCIAL AND PUBLIC SCHOOLS.

1726
00:54:43,913 --> 00:54:45,849
WHAT WORDS OF WISDOM COULD

1727
00:54:45,915 --> 00:54:47,484
YOU OFFER TO STUDENTS WHO

1728
00:54:47,550 --> 00:54:49,386
ARE LOOKING TO PURSUE A

1729
00:54:49,452 --> 00:54:51,221
CAREER IN AEROSPACE.

1730
00:54:51,287 --> 00:54:53,223
>> DREAM BIG.

1731
00:54:53,289 --> 00:54:54,624
>> YEAH.

1732
00:54:54,691 --> 00:54:57,594
I TELL YOU, I AM SURE

1733
00:54:57,661 --> 00:54:58,662
EVERYBODY UP HERE.

1734
00:54:58,728 --> 00:55:00,296
YOU LOOK BACK ON THE CAREERS

1735
00:55:00,363 --> 00:55:02,198
WE HAD AND EXCITEMENT THAT

1736
00:55:02,265 --> 00:55:03,233
SPACE BRINGS YOU.

1737
00:55:03,299 --> 00:55:05,035
IT IS PRETTY AIDS MAAING.

1738
00:55:05,101 --> 00:55:06,536

YOU CAN TAKE THAT NEXT STEP

1739

00:55:06,603 --> 00:55:08,705

AND DREAM TO BE IN THE ASTRO

1740

00:55:08,772 --> 00:55:10,040

SIDE OF THIS THING AS WELL.

1741

00:55:10,106 --> 00:55:11,708

HE CAN TELL YOU, IS SO

1742

00:55:11,775 --> 00:55:12,308

FULFILLING.

1743

00:55:12,375 --> 00:55:13,109

YOU FEEL SO PROUD OF WHAT

1744

00:55:13,176 --> 00:55:14,711

YOU ARE ACCOMPLISHING.

1745

00:55:14,778 --> 00:55:15,779

THE INTERNATIONAL SPACE

1746

00:55:15,845 --> 00:55:18,581

STATION IS JUST MIRACULOUS

1747

00:55:18,648 --> 00:55:20,116

VEHICLE AND MULTIPLE NATIONS

1748

00:55:20,183 --> 00:55:22,552

COMING TOGETHER FOR PEACEFUL

1749

00:55:22,619 --> 00:55:23,820

PURPOSES TO, YOU KNOW,

1750

00:55:23,887 --> 00:55:25,722

BENEFIT FOLKS ON EARTH.

1751
00:55:25,789 --> 00:55:26,990
AND YOU KNOW, WE ARE BEEN

1752
00:55:27,057 --> 00:55:28,191
ABLE TO KEEP THIS THING

1753
00:55:28,258 --> 00:55:29,325
OPERATING CONTINUOUSLY WITH

1754
00:55:29,392 --> 00:55:30,827
HUMANS ONBOARD FOR THE LAST

1755
00:55:30,894 --> 00:55:32,529
16 YEARS SO IT TOOK A LOT OF

1756
00:55:32,595 --> 00:55:33,029
TEAM WORK.

1757
00:55:33,096 --> 00:55:34,931
IT TOOK A LOT OF, A LOT OF

1758
00:55:34,998 --> 00:55:36,132
WORKING THROUGH ISSUES.

1759
00:55:36,199 --> 00:55:37,400
IT BROUGHT ON NEW

1760
00:55:37,467 --> 00:55:38,234
CAPABILITIES.

1761
00:55:38,301 --> 00:55:41,404
ALL THE TIME.

1762
00:55:41,471 --> 00:55:43,540
AND SO IT IS AMAZING THE

1763
00:55:43,606 --> 00:55:46,109

PRIDE THAT YOU FEEL BEING A

1764

00:55:46,176 --> 00:55:47,477

PART OF THE PROGRAM AND I

1765

00:55:47,544 --> 00:55:49,179

WOULD JUST TELL THE YOUNG

1766

00:55:49,245 --> 00:55:50,380

STUDENTS TO KEEP STRIVING

1767

00:55:50,447 --> 00:55:52,082

NOR AND YOU KNOW, TRAY TO

1768

00:55:52,148 --> 00:55:53,450

FIND THAT NICHE.

1769

00:55:53,516 --> 00:55:55,085

AND BE HAPPY WITH WHAT YOU

1770

00:55:55,151 --> 00:55:55,518

ARE DOING.

1771

00:55:55,585 --> 00:55:58,321

IT IS AWESOME THING.

1772

00:55:58,388 --> 00:55:59,823

I WILL ADD TO.

1773

00:55:59,889 --> 00:56:02,992

I THINK IT STARTS WITH US IN

1774

00:56:03,059 --> 00:56:06,696

EXPOSING THE KIDS IN THE

1775

00:56:06,763 --> 00:56:08,765

SCHOOLS WHAT WE HAVE THE

1776
00:56:08,832 --> 00:56:10,066
APPRECIATE PLASH PLEASURE OF

1777
00:56:10,133 --> 00:56:11,067
DOING IN OUR CAREER.

1778
00:56:11,134 --> 00:56:13,870
WHAT WE DO IS AMAZING FROM

1779
00:56:13,937 --> 00:56:15,371
OUR INTERNAL HOW WE FEEL

1780
00:56:15,438 --> 00:56:16,106
ABOUT IT.

1781
00:56:16,172 --> 00:56:17,640
PIT IS A SPECIAL THING TO

1782
00:56:17,707 --> 00:56:18,174
GET DO.

1783
00:56:18,241 --> 00:56:20,076
SO TO EXPOS THE KID TO THAT

1784
00:56:20,143 --> 00:56:22,178
AND TO RELAY THAT FEELING IS

1785
00:56:22,245 --> 00:56:22,712
IMPORTANT.

1786
00:56:22,779 --> 00:56:24,647
I THINK NOW, YOU KNOW, MORE

1787
00:56:24,714 --> 00:56:26,116
THAN EVER BEFORE P.M. WE ARE

1788
00:56:26,182 --> 00:56:27,117

ACTUALLY GIVING ACCESS TO

1789

00:56:27,183 --> 00:56:29,552

SPACE AND WE HAVE

1790

00:56:29,619 --> 00:56:32,422

EXPERIMENTS PLYING UP ON THE

1791

00:56:32,489 --> 00:56:34,457

SPACECRAFT TOMORROW.

1792

00:56:34,524 --> 00:56:35,625

THAT IS REALLY SPECIAL.

1793

00:56:35,692 --> 00:56:36,860

WE GOT TO FOSTER THAT

1794

00:56:36,926 --> 00:56:38,061

EXCITEMENT AND MAKE SURE

1795

00:56:38,128 --> 00:56:39,262

THEY UNDERSTAB IT AND THERE

1796

00:56:39,329 --> 00:56:40,563

IS NO LIMIT TO WHAT THEY CAN

1797

00:56:40,630 --> 00:56:41,397

TO.

1798

00:56:41,464 --> 00:56:43,633

THAT IS VERY IMPORTANT.

1799

00:56:43,700 --> 00:56:45,268

>> AND PLUG FOR THE GIRL,

1800

00:56:45,335 --> 00:56:47,137

DONE BE AFRAID OF SCIENCE.

1801
00:56:47,203 --> 00:56:49,973
DON'T BE FRAYED OF MATH.

1802
00:56:50,039 --> 00:56:51,641
DONE BE AFRAID OF MATH.

1803
00:56:51,708 --> 00:56:52,475
DIVE IN THERE.

1804
00:56:52,542 --> 00:56:53,710
YOU CAN DO IT.

1805
00:56:53,777 --> 00:56:54,778
>> THANKS.

1806
00:56:54,844 --> 00:56:55,278
THANK YOU FOR THE

1807
00:56:55,345 --> 00:56:57,614
QUESTIONS.

1808
00:56:57,680 --> 00:56:59,048
I THANK OUR PREVENTERS FOR

1809
00:56:59,115 --> 00:57:00,016
JOINING US.

1810
00:57:00,083 --> 00:57:01,251
THANKS FOR JOINING US ON THE

1811
00:57:01,317 --> 00:57:02,552
VETERANS DAY.

1812
00:57:02,619 --> 00:57:03,586
A REMINDER THAT NASA

1813
00:57:03,653 --> 00:57:04,721

TELEVISION COVERAGE WE BEGIN

1814

00:57:04,788 --> 00:57:06,890

AT 7:00 A.M. EARN STANDARD

1815

00:57:06,956 --> 00:57:07,991

TIME SATURDAY FOR THE

1816

00:57:08,057 --> 00:57:08,458

LAUNCH.

1817

00:57:08,525 --> 00:57:10,193

YOU CAN WATCH THAT ON AS?

1818

00:57:10,260 --> 00:57:11,828

TELEVISION AND THE AGENCY'S

1819

00:57:11,895 --> 00:57:15,398

WEBSITE WHICH IS W WWW.NASA.

1820

00:57:15,465 --> 00:57:15,965

GOV.