



1
00:00:04,003 --> 00:00:05,271
LADIES AND GENTLEMEN, PLEASE

2
00:00:05,338 --> 00:00:07,273
WELCOME THE VICE-PRESIDENT OF

3
00:00:07,340 --> 00:00:07,941
THE UNITED STATES AND THE CHAIR

4
00:00:08,007 --> 00:00:09,576
OF THE NATIONAL SPACE COUNCIL,

5
00:00:09,642 --> 00:00:10,343
MIKE PENCE.

6
00:00:10,410 --> 00:00:34,734
[■]

7
00:00:34,801 --> 00:00:47,213
[Applause]

8
00:00:47,280 --> 00:00:51,518
>> THANK YOU ALL.

9
00:00:51,584 --> 00:00:53,052
GOVERNOR, SECRETARY ROSS,

10
00:00:53,119 --> 00:00:55,488
SECRETARY CHOW, SECRETARY

11
00:00:55,555 --> 00:00:56,423
WILSON, TO NASA ADMINISTRATOR

12
00:00:56,489 --> 00:00:58,491
JIM BRIDENSTINE, TO ALL THE

13
00:00:58,558 --> 00:01:00,193

MEMBERS OF THE NATIONAL SPACE

14

00:01:00,260 --> 00:01:03,329

COUNCIL AND THE USER ADVISORY

15

00:01:03,396 --> 00:01:07,333

GROUP TO Dr. DA DEBORAH BARNHART

16

00:01:07,400 --> 00:01:08,668

AND THE GREAT TEAM HERE AT THE

17

00:01:08,735 --> 00:01:10,069

SPACE AND ROCKET CENTER, HONORED

18

00:01:10,136 --> 00:01:11,704

GUESTS AND ESPECIALLY TO ALL THE

19

00:01:11,771 --> 00:01:14,607

DEDICATED MEN AND WOMEN OF THE

20

00:01:14,674 --> 00:01:16,709

MARSHALL SPACE FLIGHT CENTER, IT

21

00:01:16,776 --> 00:01:19,345

IS GREAT TO BE BACK IN ROCKET

22

00:01:19,412 --> 00:01:19,546

CITY.

23

00:01:19,612 --> 00:01:26,519

[Cheering and Applause]

24

00:01:26,586 --> 00:01:28,321

THANK YOU FOR JOINING US FOR

25

00:01:28,388 --> 00:01:30,323

THIS FIFTH MEETING OF THE

26
00:01:30,390 --> 00:01:32,258
NATIONAL SPACE COUNCIL AT AN

27
00:01:32,325 --> 00:01:34,761
ENORMOUSLY IMPORTANT TIME.

28
00:01:34,828 --> 00:01:39,098
IN AMERICAN LEADERSHIP IN SPACE.

29
00:01:39,165 --> 00:01:41,734
WHILE YOU'RE AT IT, JOIN ME IN

30
00:01:41,801 --> 00:01:42,836
THANKING OUR HOSTS TODAY, THE

31
00:01:42,902 --> 00:01:43,770
MEN AND WOMEN OF THE UNITED

32
00:01:43,837 --> 00:01:45,171
STATES SPACE AND ROCKET CENTER

33
00:01:45,238 --> 00:01:47,307
WHO KEEP THE GREAT TRADITION,

34
00:01:47,373 --> 00:01:49,609
PAST, PRESENT AND FUTURE OF

35
00:01:49,676 --> 00:01:51,044
AMERICAN SPACE LEADERSHIP ALIVE

36
00:01:51,110 --> 00:01:52,278
EVERY DAY.

37
00:01:52,345 --> 00:01:59,886
[Applause]

38
00:01:59,953 --> 00:02:02,021

AND SPEAKING OF SPACE

39

00:02:02,088 --> 00:02:02,922

ENTHUSIASTS, I BRING GREETINGS

40

00:02:02,989 --> 00:02:04,724

FROM A FRIEND OF MINE AND A MAN

41

00:02:04,791 --> 00:02:07,360

WHO IS COMMITTED TO SECURING

42

00:02:07,427 --> 00:02:08,761

AMERICAN LEADERSHIP HERE ON

43

00:02:08,828 --> 00:02:11,698

EARTH AND IN THE BOUNDLESS

44

00:02:11,764 --> 00:02:12,999

EXPANSE OF SPACE, I BRING

45

00:02:13,066 --> 00:02:14,901

GREETINGS FROM THE 45th

46

00:02:14,968 --> 00:02:16,135

PRESIDENT OF THE UNITED STATES

47

00:02:16,202 --> 00:02:17,470

OF AMERICA, PRESIDENT DONALD

48

00:02:17,537 --> 00:02:18,271

TRUMP.

49

00:02:18,338 --> 00:02:27,914

[Cheering and Applause]

50

00:02:27,981 --> 00:02:29,015

THE UNITED STATES HAS ALWAYS

51
00:02:29,082 --> 00:02:32,485
BEEN A NATION OF RESTLESS

52
00:02:32,552 --> 00:02:35,088
PIONEERS, EVER STRIVING TO

53
00:02:35,154 --> 00:02:36,422
EXPLORE UNCHARTED TERRITORIES,

54
00:02:36,489 --> 00:02:37,891
REACH NEW HORIZONS AND VENTURE

55
00:02:37,957 --> 00:02:40,126
INTO THE UNKNOWN TO EXPAND THE

56
00:02:40,193 --> 00:02:42,328
BOUNDARIES OF HUMAN KNOWLEDGE.

57
00:02:42,395 --> 00:02:43,329
AS PRESIDENT TRUMP HAS SAID IN

58
00:02:43,396 --> 00:02:46,666
HIS WORDS, IT IS AMERICA'S

59
00:02:46,733 --> 00:02:48,001
DESTINY TO BE THE LEADER AMONGST

60
00:02:48,067 --> 00:02:50,103
NATIONS ON OUR OWN ADVENTURE FOR

61
00:02:50,169 --> 00:02:52,205
THE GREAT UNKNOWN.

62
00:02:52,272 --> 00:02:53,540
OVER THE PAST TWO YEARS, WE'VE

63
00:02:53,606 --> 00:02:54,941

BEGUN WRITING THE NEXT GREAT

64

00:02:55,008 --> 00:02:56,976

CHAPTER OF THAT ADVENTURE WITH

65

00:02:57,043 --> 00:02:59,712

AMERICAN INGENUITY AND AMERICAN

66

00:02:59,779 --> 00:02:59,979

INDUSTRY.

67

00:03:00,046 --> 00:03:01,214

IT IS ESPECIALLY FITTING TO

68

00:03:01,281 --> 00:03:03,116

GATHER HERE IN ROCKET CITY AS WE

69

00:03:03,182 --> 00:03:04,951

PREPARE TO CELEBRATE LATER THIS

70

00:03:05,018 --> 00:03:08,454

YEAR THE GOLDEN ANNIVERSARY OF

71

00:03:08,521 --> 00:03:11,190

THE APOLLO 11 MISSION, WHICH

72

00:03:11,257 --> 00:03:12,792

CARRIED THE FIRST MEN TO THE

73

00:03:12,859 --> 00:03:15,728

MOON AND WAS POWERED BY ROCKETS

74

00:03:15,795 --> 00:03:17,764

DEVELOPED RIGHT HERE IN

75

00:03:17,830 --> 00:03:18,331

HUNTSVILLE, ALABAMA.

76

00:03:18,398 --> 00:03:26,806

[Applause]

77

00:03:26,873 --> 00:03:28,341

AS WE APPROACH THAT ANNIVERSARY,

78

00:03:28,408 --> 00:03:30,243

I CAN TELL YOU, IT'S A SPECIAL

79

00:03:30,310 --> 00:03:32,178

HONOR AND A PRIVILEGE FOR US TO

80

00:03:32,245 --> 00:03:34,681

BE JOINED IN THIS EFFORT BY ONE

81

00:03:34,747 --> 00:03:36,916

OF THOSE TWO COURAGEOUS

82

00:03:36,983 --> 00:03:39,252

ASTRONAU WHOSE LUNAR MODULE

83

00:03:39,319 --> 00:03:41,788

SAT DOWN ON THE SEA OF

84

00:03:41,854 --> 00:03:42,088

TRANQUILITY.

85

00:03:42,155 --> 00:03:43,690

LADIES AND GENTLEMEN, WOULD YOU

86

00:03:43,756 --> 00:03:46,326

MIND GETTING ON YOUR FEET AND

87

00:03:46,392 --> 00:03:49,929

HELPING ME TO WELCOME AND THANK

88

00:03:49,996 --> 00:03:51,364

APOLLO 11 ASTRONAUT BUZZ ALDRIN

89

00:03:51,431 --> 00:03:53,833
FOR A LIFETIME OF SERVICE AND

90

00:03:53,900 --> 00:03:54,067
HEROISM.

91

00:03:54,133 --> 00:04:11,751
[Applause]

92

00:04:11,818 --> 00:04:14,754
50 YEARS AGO, ONE SMALL STEP FOR

93

00:04:14,821 --> 00:04:16,856
MAN BECAME ONE GIANT LEAP FOR

94

00:04:16,923 --> 00:04:18,391
MANKIND.

95

00:04:18,458 --> 00:04:20,960
BUT NOW COMES A TIME FOR US TO

96

00:04:21,027 --> 00:04:24,764
MAKE THE NEXT GIANT LEAP AND

97

00:04:24,831 --> 00:04:26,299
RETURN AMERICAN ASTRONAUTS TO

98

00:04:26,366 --> 00:04:28,534
THE MOON, ESTABLISH A PERMANENT

99

00:04:28,601 --> 00:04:31,037
BASE THERE AND DEVELOP THE

100

00:04:31,104 --> 00:04:32,705
TECHNOLOGIES TO TAKE AMERICAN

101
00:04:32,772 --> 00:04:36,409
ASTRONAUTS TO MARS AND BEYOND.

102
00:04:36,476 --> 00:04:37,477
[Cheering and Applause]

103
00:04:37,543 --> 00:04:44,017
THAT'S THE NEXT GIANT LEAP.

104
00:04:44,083 --> 00:04:47,020
AS WE'LL HEAR TODAY FROM THE

105
00:04:47,086 --> 00:04:48,054
MEMBERS OF THE NATIONAL SPACE

106
00:04:48,121 --> 00:04:54,060
COUNCIL AND OUR DISTINGUISHIST

107
00:04:54,127 --> 00:04:57,964
PANELISTS AND WITH THE LEADER OF

108
00:04:58,031 --> 00:05:00,433
PRESIDENT TRUMP, WE'VE MADE

109
00:05:00,500 --> 00:05:02,235
GREAT PROGRESS RENEWING

110
00:05:02,301 --> 00:05:03,369
AMERICA'S PROUD LEGACY

111
00:05:03,436 --> 00:05:04,737
LEADERSHIP IN SPACE.

112
00:05:04,804 --> 00:05:07,240
UPDATING REGULATIONS TO UNLEASH

113
00:05:07,306 --> 00:05:08,241

PIONEERING SPACE COMPANIES AND

114

00:05:08,307 --> 00:05:09,876

FORGE THE TECHNOLOGIES TO BLAZE

115

00:05:09,942 --> 00:05:11,177

NEW TRAILS INTO SPACE AND CREATE

116

00:05:11,244 --> 00:05:12,378

AMERICAN JOBS FOR THE FUTURE.

117

00:05:12,445 --> 00:05:13,746

WE'VE BEEN IMPLEMENTING THE

118

00:05:13,813 --> 00:05:16,015

FIRST-EVER POLICY OF SPACE

119

00:05:16,082 --> 00:05:20,219

TRAFFIC MANAGEMENT TO ENABLE

120

00:05:20,286 --> 00:05:20,753

COMMERCIAL ENTERPRISE AND

121

00:05:20,820 --> 00:05:24,257

PROTECT OUR NATION'S ASSET IN

122

00:05:24,323 --> 00:05:24,891

THE CONJECTED ORBITAL

123

00:05:24,957 --> 00:05:26,192

ENVIRONMENT AND MEET THE GROWING

124

00:05:26,259 --> 00:05:27,360

SECURITY THREATS IN THE

125

00:05:27,427 --> 00:05:29,195

WAR-FIGHTING DOMAIN OF SPACE AS

126

00:05:29,262 --> 00:05:32,665

THE DIRECTION OF OUR COMMANDER

127

00:05:32,732 --> 00:05:34,934

IN CHIEF, WORKING WITH THE

128

00:05:35,001 --> 00:05:36,102

CONGRESS, WE'LL ESTABLISH THE

129

00:05:36,169 --> 00:05:38,337

SIXTH BRANCH OF OUR ARMED

130

00:05:38,404 --> 00:05:39,872

FORCES, THE UNITED STATES SPACE

131

00:05:39,939 --> 00:05:41,007

FORCE.

132

00:05:41,074 --> 00:05:48,281

[Applause]

133

00:05:48,347 --> 00:05:50,283

I'M PROUD TO SHARE WITH ALL OF

134

00:05:50,349 --> 00:05:52,018

YOU THAT THE PRESIDENT HAS

135

00:05:52,085 --> 00:05:53,019

ANNOUNCED HIS NOMINEE TO LEAD

136

00:05:53,086 --> 00:05:57,290

THE NEW UNIFIED CO COMBATANT THE

137

00:05:57,356 --> 00:05:58,491

UNITED STATES SPACE COMMAND

138

00:05:58,558 --> 00:06:01,094

TODAY, FOUR-STAR AIR FORCE

139

00:06:01,160 --> 00:06:04,197

GENERAL JOHN RAYMOND WILL LEAD

140

00:06:04,263 --> 00:06:04,630

U.S. SPACE COMMAND.

141

00:06:04,697 --> 00:06:10,236

[Applause]

142

00:06:10,303 --> 00:06:11,237

AND WHILE WE'RE MENTIONING

143

00:06:11,304 --> 00:06:12,939

PEOPLE THAT WE ADMIRE, I KNOW

144

00:06:13,005 --> 00:06:15,475

SHE'LL SOON BE RETURNING TO THE

145

00:06:15,541 --> 00:06:17,477

ACADEMIC WORLD BUT LET ME TAKE

146

00:06:17,543 --> 00:06:21,581

THIS MOMENT TO THANK AIR FORCE

147

00:06:21,647 --> 00:06:23,783

SECRETARY HEATHER WILSON FOR HER

148

00:06:23,850 --> 00:06:25,017

TIRELESS WORK AND THE HISTORIC

149

00:06:25,084 --> 00:06:27,019

ROLE SHE HAS PLAYED IN HELPING

150

00:06:27,086 --> 00:06:29,555

THE AIR FORCE LAUNCH THE UNITED

151
00:06:29,622 --> 00:06:30,356
STATES SPACE FORCE.

152
00:06:30,423 --> 00:06:31,958
THANK YOU, HEATHER, FOR YOUR

153
00:06:32,024 --> 00:06:32,992
SERVICE TO THE NATION.

154
00:06:33,059 --> 00:06:40,099
[Applause]

155
00:06:40,166 --> 00:06:41,701
TODAY WE STAND AT THE DAWN OF A

156
00:06:41,768 --> 00:06:44,303
NEW ERA OF SPACE EXPLORATION.

157
00:06:44,370 --> 00:06:46,539
AN ERA THAT WILL BRING UNTOLD

158
00:06:46,606 --> 00:06:47,507
NEW CHALLENGES AND

159
00:06:47,573 --> 00:06:48,941
OPPORTUNITIES.

160
00:06:49,008 --> 00:06:51,444
AND IT WILL DEMAND THE BEST OF

161
00:06:51,511 --> 00:06:51,611
US.

162
00:06:51,677 --> 00:06:54,981
IT WILL DEMAND NEW IDEAS,

163
00:06:55,047 --> 00:06:58,050

RENEWED ENERGIES, COURAGE, AND

164

00:06:58,117 --> 00:07:00,019

BOLD ACTION.

165

00:07:00,086 --> 00:07:02,021

AFTER SPENDING MORE THAN 45

166

00:07:02,088 --> 00:07:05,558

YEARS IN LOW-EARTH ORBIT,

167

00:07:05,625 --> 00:07:07,460

PRESIDENT TRUMP AND OUR ENTIRE

168

00:07:07,527 --> 00:07:08,261

ADMINISTRATION BELIEVE THAT IT

169

00:07:08,327 --> 00:07:12,064

IS TIME TO PUSH ONWARD TO NEW

170

00:07:12,131 --> 00:07:15,401

HORIZONS AND NEW DESTINATIONS.

171

00:07:15,468 --> 00:07:16,736

THAT'S WHY UNDER THE PRESIDENT'S

172

00:07:16,803 --> 00:07:18,738

LEADERSHIP WE'VE TAKEN DECISIVE

173

00:07:18,805 --> 00:07:21,841

ACTION TO PROPEL HUMAN SPACE

174

00:07:21,908 --> 00:07:22,875

EXPLORATION MISSIONS FURTHER

175

00:07:22,942 --> 00:07:24,043

INTO THE DEPTHS OF OUR SOLAR

176
00:07:24,110 --> 00:07:26,979
SYSTEM AND WE'VE UNLEASHED

177
00:07:27,046 --> 00:07:29,916
AMERICA'S PRIVATE PIONEERS TO

178
00:07:29,982 --> 00:07:35,087
CULTIVATE THE VAST EXPANSI EXPAF

179
00:07:35,154 --> 00:07:36,022
LOW-EARTH ORBIT.

180
00:07:36,088 --> 00:07:38,457
LAST YEAR AMERICAN VIN TOYS

181
00:07:38,524 --> 00:07:40,059
BEGAN DESIGNING THE PRECURSOR TO

182
00:07:40,126 --> 00:07:41,360
THE OUTPOST ON THE MOON AND THE

183
00:07:41,427 --> 00:07:44,897
MISSION TO MARS, THE LUNAR

184
00:07:44,964 --> 00:07:45,765
GATEWAY AND WE ARE RALLYING THE

185
00:07:45,832 --> 00:07:47,800
WORLD TO JOIN US IN THIS VITAL

186
00:07:47,867 --> 00:07:48,000
WORK.

187
00:07:48,067 --> 00:07:49,302
THIS MONTH CANADA BECAME OUR

188
00:07:49,368 --> 00:07:50,303

FIRST INTERNATIONAL PARTNER AND

189

00:07:50,369 --> 00:07:51,537

ANNOUNCED A 24-YEAR COMMITMENT

190

00:07:51,604 --> 00:07:53,773

TO COOPERATE ON THE LUNAR

191

00:07:53,840 --> 00:07:54,774

GATEWAY.

192

00:07:54,841 --> 00:08:02,515

[Applause]

193

00:08:02,582 --> 00:08:04,217

AS WE SPEAK WE'RE WORKING WITH

194

00:08:04,283 --> 00:08:05,718

CONGRESS TO PROVIDE \$500 MILLION

195

00:08:05,785 --> 00:08:07,220

TO GET AN AMERICAN CREW ABOARD

196

00:08:07,286 --> 00:08:08,688

THIS LUNAR ORBITING PLATFORM IN

197

00:08:08,754 --> 00:08:09,956

THE COMING YEARS.

198

00:08:10,022 --> 00:08:12,258

WE'VE ALSO MADE GREAT PROGRESS

199

00:08:12,325 --> 00:08:15,194

ON THE COMMERCIAL CREW PROGRAM.

200

00:08:15,261 --> 00:08:17,897

THIS MONTH THE CREW DRAGON'S

201
00:08:17,964 --> 00:08:20,032
SUCCESSFUL MISSION WAS THE FIRST

202
00:08:20,099 --> 00:08:22,768
TIME SINCE THE LAST SPACE

203
00:08:22,835 --> 00:08:24,770
SHUTTLE FLIGHT IN 2011 THAT WE

204
00:08:24,837 --> 00:08:26,672
LAUNCHED AN AMERICAN ROCKET FROM

205
00:08:26,739 --> 00:08:29,308
AMERICAN SOIL DESIGNED TO SEND

206
00:08:29,375 --> 00:08:31,611
HUMANS TO SPACE ORBIT.

207
00:08:31,677 --> 00:08:32,945
AND AS PRESIDENT TRUMP SAID NOT

208
00:08:33,012 --> 00:08:36,249
LONG AGO, BEFORE THE YEAR IS

209
00:08:36,315 --> 00:08:38,484
OUT, AMERICAN ASTRONAUTS WILL GO

210
00:08:38,551 --> 00:08:40,319
BACK TO SPACE ON AMERICAN

211
00:08:40,386 --> 00:08:41,053
ROCKETS.

212
00:08:41,120 --> 00:08:49,061
[Applause]

213
00:08:49,128 --> 00:08:50,329

I HAD THE CHANCE TO TALK TO ONE

214

00:08:50,396 --> 00:08:52,064

OF THE AMERICANS ABOARD THE

215

00:08:52,131 --> 00:08:52,999

INTERNATIONAL SPACE STATION WHEN

216

00:08:53,065 --> 00:08:55,301

THE CREW DRAGON DOCKED THERE.

217

00:08:55,368 --> 00:08:57,336

SHE'S AN AMERICAN PATRIATE, A

218

00:08:57,403 --> 00:08:58,738

COMBAT VETERAN, UNITED STATES

219

00:08:58,804 --> 00:09:00,940

ARMY AVIATOR WHO RECENTLY TRADED

220

00:09:01,007 --> 00:09:03,276

HER ARMY UNIFORM FOR AN AMERICAN

221

00:09:03,342 --> 00:09:04,911

SPACE SUIT, ANNE McLEAN.

222

00:09:04,977 --> 00:09:07,013

TODAY WE'RE HONORED TO BE JOINED

223

00:09:07,079 --> 00:09:09,048

BY TWO OTHER PIONEERS OF SPACE

224

00:09:09,115 --> 00:09:10,049

FLIGHT WHO HELPED BLAZE THE

225

00:09:10,116 --> 00:09:12,752

TRAIL FOR ANNE AND FOR EVERY

226

00:09:12,818 --> 00:09:14,086

YOUNG AMERICAN WHO DREAMS OF ONE

227

00:09:14,153 --> 00:09:16,822

DAY LEADING HER NATION IN SPACE.

228

00:09:16,889 --> 00:09:18,424

JOIN ME IN THANKING THESE

229

00:09:18,491 --> 00:09:19,725

AMERICAN HEROES FOR THEIR

230

00:09:19,792 --> 00:09:22,328

SERVICE AND LEADERSHIP, COLONEL

231

00:09:22,395 --> 00:09:24,664

EILEEN COLLINS AND Dr. SANDY

232

00:09:24,730 --> 00:09:24,897

MAGNUS.

233

00:09:24,964 --> 00:09:28,100

THESE ARE TWO GREAT AMERICAN

234

00:09:28,167 --> 00:09:28,334

HEROES.

235

00:09:28,401 --> 00:09:32,738

[Applause]

236

00:09:32,805 --> 00:09:34,340

SO WE'VE MADE GREAT STRIDES IN

237

00:09:34,407 --> 00:09:35,741

ADVANCING THE PRESIDENT'S BOLD

238

00:09:35,808 --> 00:09:38,077

NEW VISION FOR SPACE.

239

00:09:38,144 --> 00:09:40,212

A VISION TO PUSH OUR NATION

240

00:09:40,279 --> 00:09:42,214

FARTHER AND FASTER THAN EVER.

241

00:09:42,281 --> 00:09:44,016

UNLIKE THE LAST FEW

242

00:09:44,083 --> 00:09:45,952

ADMINISTRATIONS, WE'VE HAD THE

243

00:09:46,018 --> 00:09:46,786

BUDGETS TO MATCH IT.

244

00:09:46,852 --> 00:09:48,754

IN FACT, WITH THE STRONG SUPPORT

245

00:09:48,821 --> 00:09:50,690

OF LEADERS IN CONGRESS LIKE THE

246

00:09:50,756 --> 00:09:51,891

CHAIRMAN OF THE SENATE

247

00:09:51,958 --> 00:09:54,093

APPROPRIATIONS COMMITTEE,

248

00:09:54,160 --> 00:09:56,228

ALABAMA'S OWN SENATOR RICHARD

249

00:09:56,295 --> 00:09:58,764

SHELBY.

250

00:09:58,831 --> 00:10:01,267

[Applause]

251
00:10:01,334 --> 00:10:02,668
THE PRESIDENT HAS ALREADY SIGNED

252
00:10:02,735 --> 00:10:05,938
INTO LAW THE LARGEST NASA BUDGET

253
00:10:06,005 --> 00:10:08,507
SINCE THE DAYS OF THE APOLLO

254
00:10:08,574 --> 00:10:11,544
PROGRAM AND WE FULLY FUNDED THE

255
00:10:11,610 --> 00:10:15,047
SPACE LAUNCH SYSTEM AND THE

256
00:10:15,114 --> 00:10:16,415
ORION SPACE CAPSULE.

257
00:10:16,482 --> 00:10:21,220
[Applause]

258
00:10:21,287 --> 00:10:24,256
OF COURSE IN DECEMBER OF 2017,

259
00:10:24,323 --> 00:10:27,793
THE PRESIDENT SIGNED SPACE

260
00:10:27,860 --> 00:10:28,995
POLICY DIRECTIVE ONE TO RETURN

261
00:10:29,061 --> 00:10:31,897
AMERICANS TO THE MOON AND

262
00:10:31,964 --> 00:10:34,734
PRIORITIZE CRUDE MISSIONS TO THE

263
00:10:34,800 --> 00:10:36,969

LUNAR SURFACE.

264

00:10:37,036 --> 00:10:38,571

SPV1 AS IT'S COME TO BE KNOWN

265

00:10:38,637 --> 00:10:40,906

MARKED A WATERSHED MOMENT FOR

266

00:10:40,973 --> 00:10:41,707

AMERICAN SPACE ENTERPRISE.

267

00:10:41,774 --> 00:10:44,543

SINCE THE DISASTROUS DECISION TO

268

00:10:44,610 --> 00:10:46,846

CANCEL THE CONSTELLATION PROGRAM

269

00:10:46,912 --> 00:10:49,181

IN 2010, THE TRUTH IS, NASA'S

270

00:10:49,248 --> 00:10:50,683

EXPLORATION EFFORTS WERE LEFT

271

00:10:50,750 --> 00:10:52,184

ADRIFT.

272

00:10:52,251 --> 00:10:56,322

WITH NO CLEAR DIRECTION.

273

00:10:56,389 --> 00:10:57,223

, FOCUS OR MISSION.

274

00:10:57,289 --> 00:11:01,861

TO YOUR CREDIT, THE MEN AND

275

00:11:01,927 --> 00:11:03,496

WOMEN OF THE MARSHALL SPACE

276

00:11:03,562 --> 00:11:06,098

FLIGHT CENTER NEVER GAVE UP.

277

00:11:06,165 --> 00:11:07,666

YOU PERSEVERED WITH DETENTION AT

278

00:11:07,733 --> 00:11:09,201

A TIME OF INDECISION AT THE

279

00:11:09,268 --> 00:11:10,936

HIGHEST LEVEL OF OUR NATIONAL

280

00:11:11,003 --> 00:11:11,604

GOVERNMENT AND YOU CONTINUED TO

281

00:11:11,670 --> 00:11:12,972

DO YOUR BEST WHICH IS TO BUILD

282

00:11:13,039 --> 00:11:15,074

THE GREATEST AND MOST POWERFUL

283

00:11:15,141 --> 00:11:17,443

ROCKETS EVER KNOWN TO MAN.

284

00:11:17,510 --> 00:11:19,745

GIVE YOURSELVES A ROUND OF

285

00:11:19,812 --> 00:11:22,948

APPLAUSE FOR PERSEVERING HERE AT

286

00:11:23,015 --> 00:11:24,116

MARSHALL AND DEVELOPING THE

287

00:11:24,183 --> 00:11:24,617

ROCKETS OF THE FUTURE.

288

00:11:24,683 --> 00:11:31,924

[Applause]

289

00:11:31,991 --> 00:11:34,560

SPACE POLICY DIRECTIVE ONE,

290

00:11:34,627 --> 00:11:36,062

PRESIDENT TRUMP FINALLY GAVE

291

00:11:36,128 --> 00:11:37,997

NASA THE CLEAR MISSION AND

292

00:11:38,064 --> 00:11:39,899

DIRECTIVE IT NEEDS.

293

00:11:39,965 --> 00:11:41,033

WE WILL RETURN AMERICAN

294

00:11:41,100 --> 00:11:42,334

ASTRONAUTS TO THE MOON FOR THE

295

00:11:42,401 --> 00:11:44,737

FIRST TIME SINCE 1972 FOR

296

00:11:44,804 --> 00:11:46,038

LONG-TERM EXPLORATION AND USE.

297

00:11:46,105 --> 00:11:47,873

AS HE SAID NOT ONLY TO, QUOTE,

298

00:11:47,940 --> 00:11:53,312

MANT PLANT OUR FLAG AND LEAVE

299

00:11:53,379 --> 00:11:54,313

FOOTPRINTS BUT TO ESTABLISH A

300

00:11:54,380 --> 00:11:57,049

FOUNDATION ON THE MOON FOR AN

301
00:11:57,116 --> 00:11:59,318
EVENTUAL MISSION TO MARS.

302
00:11:59,385 --> 00:12:02,054
[Applause]

303
00:12:02,121 --> 00:12:03,489
NOW, OVER THE PAST TWO YEARS,

304
00:12:03,556 --> 00:12:04,790
I'VE HAD THE PRIVILEGE TO TRAVEL

305
00:12:04,857 --> 00:12:08,127
ACROSS THIS COUNTRY AND MEET

306
00:12:08,194 --> 00:12:10,062
WITH MANY OF NASA'S MORE THAN

307
00:12:10,129 --> 00:12:13,399
18,000 SCIENTISTS, ENGINEERS,

308
00:12:13,466 --> 00:12:14,500
ASTRONAUTS, CONTRACT OFFICERS.

309
00:12:14,567 --> 00:12:17,002
EVERYWHERE I GO, I SEE RENEWED

310
00:12:17,069 --> 00:12:21,173
ENERGY AND EXCITEMENT.

311
00:12:21,240 --> 00:12:22,775
THE PRESIDENT'S COMMITMENT TO

312
00:12:22,842 --> 00:12:24,076
AMERICAN LEADERSHIP IN SPACE IS

313
00:12:24,143 --> 00:12:24,343

INSPIRING.

314

00:12:24,410 --> 00:12:27,780

BUT TO ACHIEVE OUR OBJECTIVES, I

315

00:12:27,847 --> 00:12:30,716

CAME HERE TODAY TO SAY THAT NASA

316

00:12:30,783 --> 00:12:34,286

MUST MEET THAT NEW SPIRIT WITH

317

00:12:34,353 --> 00:12:36,155

NEW URGENCY AND THE FOCUS THAT

318

00:12:36,222 --> 00:12:38,390

IT ALL DESERVES.

319

00:12:38,457 --> 00:12:40,292

JUST A FEW MOMENTS AGO, BUZZ

320

00:12:40,359 --> 00:12:41,927

ALDRIN WAS REFLECTING ON HIS

321

00:12:41,994 --> 00:12:44,430

TIME IN AO PROGRAM.

322

00:12:44,497 --> 00:12:47,032

HE TALKED ABOUT THAT FABLED

323

00:12:47,099 --> 00:12:47,733

APOLLO 11 MISSION.

324

00:12:47,800 --> 00:12:51,971

HE SAID IN 192 1962, WE HAD AN

325

00:12:52,037 --> 00:12:54,206

OBJECTIVE, WE HAD TIME, BUT WE

326

00:12:54,273 --> 00:12:55,708

DIDN'T HAVE A PLAN.

327

00:12:55,774 --> 00:12:59,445

IN SPACE POLICY DIRECTIVE ONE,

328

00:12:59,512 --> 00:13:00,346

THE PRESIDENT DIRECTED NASA TO

329

00:13:00,412 --> 00:13:03,682

CREATE A LUNAR EXPLORATION PLAN.

330

00:13:03,749 --> 00:13:05,985

BUT AS OF TODAY, MORE THAN 15

331

00:13:06,051 --> 00:13:08,220

MONTHS LATER, WE STILL DON'T

332

00:13:08,287 --> 00:13:13,526

HAVE A PLAN IN PLACE, BUT

333

00:13:13,592 --> 00:13:15,461

ADMINISTRATOR BRIDENSTINE TOLD

334

00:13:15,528 --> 00:13:16,962

ME FIVE MINUTES AGO WE NOW HAVE

335

00:13:17,029 --> 00:13:19,398

A PLAN TO RETURN TO THE MOON.

336

00:13:19,465 --> 00:13:28,741

[Applause]

337

00:13:28,807 --> 00:13:30,276

TRUTH IS DESPITE THE DEDICATION

338

00:13:30,342 --> 00:13:31,777

OF THE MEN AND WOMEN DESIGNING

339

00:13:31,844 --> 00:13:33,279

AND BUILDING AND TESTING THE

340

00:13:33,345 --> 00:13:35,114

SLS, YOU ALL KNOW THE PROGRAM

341

00:13:35,181 --> 00:13:38,417

HAS BEEN PLAGUED BY BUREAUCRATIC

342

00:13:38,484 --> 00:13:40,052

INERTIA, BUT WHAT SOME CALL THE

343

00:13:40,119 --> 00:13:43,455

PARALYSIS OF ANALYSIS.

344

00:13:43,522 --> 00:13:44,790

A NATION ACTUALLY LEARNED WITH

345

00:13:44,857 --> 00:13:46,792

GREAT DISAPPOINTMENT IN RECENT

346

00:13:46,859 --> 00:13:47,893

WEEKS THAT THE DATE FOR THE

347

00:13:47,960 --> 00:13:49,528

FIRST FLIGHT FOR THE SLS HAS

348

00:13:49,595 --> 00:13:53,265

BEEN PUSHED BACK YET AGAIN.

349

00:13:53,332 --> 00:13:56,902

TO 2021.

350

00:13:56,969 --> 00:14:04,143

AFTER YEARS OF COST OVERRUNS AND

351
00:14:04,210 --> 00:14:05,044
SLIPPED DEADLINES, WE'RE

352
00:14:05,110 --> 00:14:06,145
ACTUALLY BEING TOLD THE EARLIEST

353
00:14:06,212 --> 00:14:09,348
WE CAN GET BACK TO THE MOON IS

354
00:14:09,415 --> 00:14:09,548
2018.

355
00:14:09,615 --> 00:14:12,017
THAT WOULD BE 18 YEARS AFTER THE

356
00:14:12,084 --> 00:14:14,453
SLS PROGRAM WAS STARTED AND 11

357
00:14:14,520 --> 00:14:16,789
YEARS AFTER THE PRESIDENT OF THE

358
00:14:16,855 --> 00:14:17,856
UNITED STATES DIRECTED NASA TO

359
00:14:17,923 --> 00:14:18,757
RETURN AMERICAN ASTRONAUTS TO

360
00:14:18,824 --> 00:14:20,359
THE MOON.

361
00:14:20,426 --> 00:14:22,194
LADIES AND GENTLEMEN, THAT'S

362
00:14:22,261 --> 00:14:25,231
JUST NOT GOOD ENOUGH.

363
00:14:25,297 --> 00:14:26,398

WE'RE BETTER THAN THAT.

364

00:14:26,465 --> 00:14:28,834

IT TOOK US EIGHT YEARS TO GET TO

365

00:14:28,901 --> 00:14:30,970

THE MOON THE FIRST TIME 50 YEARS

366

00:14:31,036 --> 00:14:32,538

AGO, WHEN WE HAD NEVER DONE IT

367

00:14:32,605 --> 00:14:33,272

BEFORE.

368

00:14:33,339 --> 00:14:36,008

AND IT SHOULDN'T TAKE US ELEVEN

369

00:14:36,075 --> 00:14:37,109

YEARS TO GET BACK.

370

00:14:37,176 --> 00:14:39,044

YOU KNOW, IT'S BEEN 47 YEARS

371

00:14:39,111 --> 00:14:40,379

SINCE AMERICAN ASTRONAUTS LAST

372

00:14:40,446 --> 00:14:44,083

WALKED ON THE MOON.

373

00:14:44,149 --> 00:14:45,684

IRONICALLY AMERICA'S FIRST

374

00:14:45,751 --> 00:14:48,821

GENERATION OF SPACE PIONEERS

375

00:14:48,887 --> 00:14:50,422

KNEW IT WOULD LIKELY TAKE TIME

376

00:14:50,489 --> 00:14:51,357

FOR THE NEXT GENERATION TO

377

00:14:51,423 --> 00:14:53,025

RETURN TO THE MOON, INCLUDING

378

00:14:53,092 --> 00:14:55,294

ONE OF THE FOUNDERS OF ROCKET

379

00:14:55,361 --> 00:14:58,597

CITY, Dr. BRON.

380

00:14:58,664 --> 00:14:59,932

JUST AS IT TOOK THE DEVELOPMENT

381

00:14:59,999 --> 00:15:01,267

OF THE AIRPLANE FOR THE UNITED

382

00:15:01,333 --> 00:15:05,771

STATES NAVY TO REACH THE SOUTH

383

00:15:05,838 --> 00:15:07,573

POLE 45 YEARS AFTER AN

384

00:15:07,640 --> 00:15:09,208

EXPEDITION OF NORWEGIAN

385

00:15:09,275 --> 00:15:10,409

EXPLORERS MADE HISTORY AND GOT

386

00:15:10,476 --> 00:15:16,248

THERE IN 1911, Dr. VON BRON

387

00:15:16,315 --> 00:15:17,483

BELIEVED IT WOULD TAKE WHAT HE

388

00:15:17,549 --> 00:15:19,084

CALLED IN HIS WORDS ENABLING

389

00:15:19,151 --> 00:15:20,286

TECHNOLOGY FOR US TO RETURN TO

390

00:15:20,352 --> 00:15:22,821

THE LUNAR SURFACE.

391

00:15:22,888 --> 00:15:24,823

THAT IT MIGHT TAKE JUST AS MUCH

392

00:15:24,890 --> 00:15:27,860

TIME TO DEVELOP IT.

393

00:15:27,926 --> 00:15:29,595

THE GOOD NEWS IS AS WE WILL HEAR

394

00:15:29,662 --> 00:15:32,698

FROM OUR DISTINGUISHED PANELISTS

395

00:15:32,765 --> 00:15:35,734

TODAY, THOSE ENABLING

396

00:15:35,801 --> 00:15:37,603

TECHNOLOGIES HAVE ARRIVED, AND

397

00:15:37,670 --> 00:15:40,839

WE ARE GOING BACK TO THE MOON.

398

00:15:40,906 --> 00:15:47,346

[Applause]

399

00:15:47,413 --> 00:15:49,148

BECAUSE OF YOUR WORK, BECAUSE OF

400

00:15:49,214 --> 00:15:51,583

THE INGENUITY, DEDICATION AND

401
00:15:51,650 --> 00:15:52,451
ENTREPRENEURIAL SPIRIT REFLECTED

402
00:15:52,518 --> 00:15:54,787
IN THIS ROOM AND THROUGHOUT THE

403
00:15:54,853 --> 00:15:55,888
AMERICAN SPACE ENTERPRISE, SINCE

404
00:15:55,954 --> 00:15:59,625
THE END OF APOLLO 11, WE'VE

405
00:15:59,692 --> 00:16:00,459
FORGED INCREDIBLE BREAKTHROUGHS

406
00:16:00,526 --> 00:16:01,460
IN OUR TECHNOLOGY THAT HAVE

407
00:16:01,527 --> 00:16:03,262
ALLOWED US TO GO FURTHER, MORE

408
00:16:03,329 --> 00:16:05,297
SAFELY IN SPACE THAN EVER

409
00:16:05,364 --> 00:16:05,531
BEFORE.

410
00:16:05,597 --> 00:16:07,232
WE HAVE THE TECHNOLOGY TO RETURN

411
00:16:07,299 --> 00:16:10,436
TO THE MOON AND RENEW AMERICAN

412
00:16:10,502 --> 00:16:11,970
LEADERSHIP IN HUMAN SPACE

413
00:16:12,037 --> 00:16:13,839

EXPLORATION.

414

00:16:13,906 --> 00:16:18,377

WHAT WE NEED NOW IS URGENCY.

415

00:16:18,444 --> 00:16:21,413

MAKE NO MISTAKE ABOUT IT.

416

00:16:21,480 --> 00:16:23,248

WE'RE IN A SPACE RACE TODAY.

417

00:16:23,315 --> 00:16:26,585

JUST AS WE WERE IN THE 1960s.

418

00:16:26,652 --> 00:16:29,288

AND THE STAKES ARE EVEN HIGHER.

419

00:16:29,355 --> 00:16:31,423

LAST DECEMBER, CHINA BECAME THE

420

00:16:31,490 --> 00:16:32,925

FIRST NATION TO LAND ON THE FAR

421

00:16:32,991 --> 00:16:34,526

SIDE OF THE MOON AND REVEALED

422

00:16:34,593 --> 00:16:38,564

THEIR AMBITION TO SEIZE THE

423

00:16:38,630 --> 00:16:40,432

LUNAR STRATEGIC HIGH GROUND IS

424

00:16:40,499 --> 00:16:42,401

BECOME THE WORLD'S PRE-EMINENT

425

00:16:42,468 --> 00:16:43,102

SPACE BEARING NATION.

426
00:16:43,168 --> 00:16:44,737
FOR MORE THAN SEVEN YEARS

427
00:16:44,803 --> 00:16:45,838
WITHOUT A VIABLE HUMAN SPACE

428
00:16:45,904 --> 00:16:47,272
LAUNCH PROGRAM OF OUR OWN,

429
00:16:47,339 --> 00:16:48,173
RUSSIA HAS BEEN CHARGING THE

430
00:16:48,240 --> 00:16:49,575
UNITED STATES MORE THAN

431
00:16:49,641 --> 00:16:52,711
\$80 MILLION A SEAT EVERY TIME AN

432
00:16:52,778 --> 00:16:54,713
AMERICAN ASTRONAUT TRAVELS TO

433
00:16:54,780 --> 00:16:56,949
THE INTERNATIONAL SPACE STATION.

434
00:16:57,015 --> 00:16:58,951
BUT IT'S NOT JUST COMPETITION

435
00:16:59,017 --> 00:17:01,820
AGAINST OUR ADVERSARIES.

436
00:17:01,887 --> 00:17:02,988
WE'RE ALSO RACING AGAINST OUR

437
00:17:03,055 --> 00:17:05,224
WORST ENEMY.

438
00:17:05,290 --> 00:17:07,226

COMPLACENCY.

439

00:17:07,292 --> 00:17:09,261

THE TRUTH IS, WE'VE BEEN HERE

440

00:17:09,328 --> 00:17:11,563

BEFORE.

441

00:17:11,630 --> 00:17:14,500

NEARLY 62 YEARS AGO, THE RACE

442

00:17:14,566 --> 00:17:16,201

FOR SPACE BEGAN, AND THE SOVIET

443

00:17:16,268 --> 00:17:19,037

UNION TOOK AN EARLY LEAD.

444

00:17:19,104 --> 00:17:23,575

BUT THE SIGHT OF SPUTNIK

445

00:17:23,642 --> 00:17:26,712

BLINKING ACROSS THE OCTOBER SKY

446

00:17:26,779 --> 00:17:27,813

SPURRED THE AMERICAN PEOPLE TO

447

00:17:27,880 --> 00:17:28,046

ACTION.

448

00:17:28,113 --> 00:17:30,115

WE REFUSED TO ACCEPT A FUTURE IN

449

00:17:30,182 --> 00:17:32,184

SPACE WRITTEN BY THE ENEMIES OF

450

00:17:32,251 --> 00:17:32,418

FREEDOM.

451
00:17:32,484 --> 00:17:37,022
WE VOWED TO CLAIM OUR RIGHTFUL

452
00:17:37,089 --> 00:17:39,158
PLACE AS THE UNDISPUTED LEADER

453
00:17:39,224 --> 00:17:42,127
OF THE EXPLORATION OF HEAVENS

454
00:17:42,194 --> 00:17:43,562
AND 12 YEARS LATER, ONE GIANT

455
00:17:43,629 --> 00:17:44,029
LEAP OCCURRED.

456
00:17:44,096 --> 00:17:45,531
WE ACHIEVED OUR GOAL OF AMERICAN

457
00:17:45,597 --> 00:17:47,900
LEADERSHIP IN SPACE.

458
00:17:47,966 --> 00:17:52,704
NOW MORE THAN 50 YEARS LATER, WE

459
00:17:52,771 --> 00:17:55,741
GATHER HERE TODAY TO SAY THAT IT

460
00:17:55,808 --> 00:17:58,243
IS UP TO THIS GENERATION TO MEET

461
00:17:58,310 --> 00:18:00,779
THE CHALLENGE OF OUR TIME, AND

462
00:18:00,846 --> 00:18:03,015
WITH THE RECOMMENDATIONS OF THIS

463
00:18:03,081 --> 00:18:04,817

NATIONAL SPACE COUNCIL, THE

464

00:18:04,883 --> 00:18:06,452

RECOMMENDATIONS WILL BE APPROVED

465

00:18:06,518 --> 00:18:09,455

TODAY, I BELIEVE THAT WE ARE

466

00:18:09,521 --> 00:18:11,089

RISING TO MEET THAT CHALLENGE

467

00:18:11,156 --> 00:18:13,525

HEAD-ON.

468

00:18:13,592 --> 00:18:19,965

[Applause]

469

00:18:20,032 --> 00:18:21,767

JUST AS THE UNITED STATES WAS

470

00:18:21,834 --> 00:18:22,868

THE FIRST NATION TO REACH THE

471

00:18:22,935 --> 00:18:27,506

MOON IN THE 20th CENTURY, SO

472

00:18:27,573 --> 00:18:29,241

TOO WILL WE BE THE FIRST NATION

473

00:18:29,308 --> 00:18:30,409

TO RETURN ASTRONAUTS TO THE MOON

474

00:18:30,476 --> 00:18:31,810

IN THE 21st CENTURY.

475

00:18:31,877 --> 00:18:33,745

I'M HERE ON THE PRESIDENT'S

476
00:18:33,812 --> 00:18:35,581
BEHALF TO TELL THE MEN AND WOMEN

477
00:18:35,647 --> 00:18:37,516
OF THE MARSHALL SPACE FLIGHT

478
00:18:37,583 --> 00:18:41,153
CENTER AND THE AMERICAN PEOPLE

479
00:18:41,220 --> 00:18:42,020
THAT AT THE DIRECTION OF THE

480
00:18:42,087 --> 00:18:42,688
PRESIDENT OF THE UNITED STATES,

481
00:18:42,754 --> 00:18:47,693
IT IS THE STATED POLICY OF THIS

482
00:18:47,759 --> 00:18:48,494
ADMINISTRATION AND THE UNITED

483
00:18:48,560 --> 00:18:51,196
STATES OF AMERICA TO RETURN

484
00:18:51,263 --> 00:18:52,731
AMERICAN ASTRONAUTS TO THE MOON

485
00:18:52,798 --> 00:18:53,866
WITHIN THE NEXT FIVE YEARS.

486
00:18:53,932 --> 00:19:10,849
[Applause]

487
00:19:10,916 --> 00:19:13,585
LET ME BE CLEAR.

488
00:19:13,652 --> 00:19:16,421

THE FIRST WOMAN AND THE NEXT MAN

489

00:19:16,488 --> 00:19:19,925

ON THE MOON WILL BOTH BE

490

00:19:19,992 --> 00:19:21,760

AMERICAN ASTRONAUTS LAUNCHED BY

491

00:19:21,827 --> 00:19:23,529

AMERICAN ROCKETS FROM AMERICAN

492

00:19:23,595 --> 00:19:24,296

SOIL.

493

00:19:24,363 --> 00:19:34,439

[Applause]

494

00:19:34,506 --> 00:19:39,678

THE BBUT TO ACCOMPLISH THIS, WET

495

00:19:39,745 --> 00:19:42,014

REDOUBLE OUR EFFORTS, HERE IN

496

00:19:42,080 --> 00:19:43,916

HUNTSVILLE AND THROUGHOUT THIS

497

00:19:43,982 --> 00:19:45,150

PROGRAM.

498

00:19:45,217 --> 00:19:46,752

WE MUST ACCELERATE THE SLS

499

00:19:46,818 --> 00:19:49,388

PROGRAM TO MEET THIS OBJECTIVE.

500

00:19:49,454 --> 00:19:54,126

BUT KNOW THIS: THE PRESIDENT HAS

501
00:19:54,192 --> 00:19:54,960
DIRECTED NASA AND ADMINISTRATOR

502
00:19:55,027 --> 00:19:57,162
JIM BRIDENSTINE TO ACCOMPLISH

503
00:19:57,229 --> 00:19:59,164
THIS GOAL BY ANY MEANS

504
00:19:59,231 --> 00:20:00,065
NECESSARY.

505
00:20:00,132 --> 00:20:03,702
IN ORDER TO SUCCEED AS THE

506
00:20:03,769 --> 00:20:04,503
ADMINISTRATOR WILL DISCUSS

507
00:20:04,570 --> 00:20:05,837
TODAY, WE MUST FOCUS ON THE

508
00:20:05,904 --> 00:20:08,340
MISSION OVER THE MEANS.

509
00:20:08,407 --> 00:20:10,142
YOU MUST CONSIDER EVERY

510
00:20:10,208 --> 00:20:11,076
AVAILABLE OPTION AND PLATFORM TO

511
00:20:11,143 --> 00:20:14,012
MEET OUR GOALS, INCLUDING

512
00:20:14,079 --> 00:20:15,314
INDUSTRY, GOVERNMENT, AND THE

513
00:20:15,380 --> 00:20:16,848

ENTIRE AMERICAN SPACE

514

00:20:16,915 --> 00:20:19,217

ENTERPRISE.

515

00:20:19,284 --> 00:20:20,519

OUR ADMINISTRATION IS COMMITTED

516

00:20:20,586 --> 00:20:23,488

TO THIS GOAL, AND THIS

517

00:20:23,555 --> 00:20:24,790

PRESIDENT, THIS ADMINISTRATION

518

00:20:24,856 --> 00:20:26,692

AND THE AMERICAN PEOPLE ARE

519

00:20:26,758 --> 00:20:30,028

COMMITTED TO ACHIEVING THAT GOAL

520

00:20:30,095 --> 00:20:31,697

AT THE MARSHALL SPACE FLIGHT

521

00:20:31,763 --> 00:20:32,464

CENTER.

522

00:20:32,531 --> 00:20:41,206

[Applause]

523

00:20:41,273 --> 00:20:43,809

THE TRUTH IS, WE'RE COMMITTED TO

524

00:20:43,875 --> 00:20:45,043

MARSHALL.

525

00:20:45,110 --> 00:20:46,244

INCREDIBLE HISTORY THAT YOU HAVE

526
00:20:46,311 --> 00:20:48,080
HERE.

527
00:20:48,146 --> 00:20:49,815
BUT TO BE CLEAR, WE'RE NOT

528
00:20:49,881 --> 00:20:52,117
COMMITTED TO ANY ONE CONTRACTOR.

529
00:20:52,184 --> 00:20:53,819
IF OUR CURRENT CONTRACTORS CAN'T

530
00:20:53,885 --> 00:20:55,520
MEET THIS OBJECTIVE, THEN WE'LL

531
00:20:55,587 --> 00:20:57,856
FIND ONES THAT WILL.

532
00:20:57,923 --> 00:20:59,458
IF AMERICAN INDUSTRY CAN PROVIDE

533
00:20:59,524 --> 00:21:00,759
CRITICAL COMMERCIAL SERVICES

534
00:21:00,826 --> 00:21:02,494
WITHOUT GOVERNMENT DEVELOPMENT,

535
00:21:02,561 --> 00:21:04,696
THEN WE'LL BUY THEM AND IF

536
00:21:04,763 --> 00:21:05,731
COMMERCIAL ROCKETS ARE THE ONLY

537
00:21:05,797 --> 00:21:07,032
WAY TO GET AMERICAN ASTRONAUTS

538
00:21:07,099 --> 00:21:10,268

TO THE MOON IN THE NEXT FIVE

539

00:21:10,335 --> 00:21:11,770

YEARS, THEN COMMERCIAL ROCKETS

540

00:21:11,837 --> 00:21:14,272

IT WILL BE.

541

00:21:14,339 --> 00:21:17,009

URGENCY MUST BE OUR WATCH WORD.

542

00:21:17,075 --> 00:21:20,045

FAILURE TO ACHIEVE OUR GOAL TO

543

00:21:20,112 --> 00:21:21,146

RETURN AN AMERICAN ASTRONAUT TO

544

00:21:21,213 --> 00:21:24,082

THE MOON IN THE NEXT FIVE YEARS,

545

00:21:24,149 --> 00:21:27,285

IT'S NOT AN OPTION.

546

00:21:27,352 --> 00:21:29,321

AS WE'LL DISCUSS TODAY, THIS

547

00:21:29,388 --> 00:21:33,759

WILL REQUIRE RENEWED FOCUS AND A

548

00:21:33,825 --> 00:21:34,960

RELENTLESS WILL TO ACHIEVE OUR

549

00:21:35,027 --> 00:21:37,896

MISSION.

550

00:21:37,963 --> 00:21:39,898

THAT'S EXACTLY WHAT YOU HAVE IN

551
00:21:39,965 --> 00:21:41,600
ABUNDANCE HERE IN NORTHERN

552
00:21:41,667 --> 00:21:43,835
ALABAMA.

553
00:21:43,902 --> 00:21:45,470
URGENCY HAS ALWAYS BEEN IN THE

554
00:21:45,537 --> 00:21:47,973
DNA OF ROCKET CITY.

555
00:21:48,040 --> 00:21:49,808
MEN AND WOMEN OF THE MARSHALL

556
00:21:49,875 --> 00:21:50,776
SPACE FLIGHT CENTER KNOW EXACTLY

557
00:21:50,842 --> 00:21:53,912
WHAT IT TAKES TO BE FIRST, TO BE

558
00:21:53,979 --> 00:21:55,747
FIRST IN SPACE, BECAUSE YOU HAVE

559
00:21:55,814 --> 00:21:57,949
BEEN DOING IT FOR GENERATIONS.

560
00:21:58,016 --> 00:22:00,285
IT WAS HERE YOU BUILT THE

561
00:22:00,352 --> 00:22:02,087
JUPITER C ROCKET THAT CARRIED

562
00:22:02,154 --> 00:22:03,822
INTO ORBIT AMERICAN'S FIRST

563
00:22:03,889 --> 00:22:08,560

SEATTSATELLITE, EXPLORER 1.

564

00:22:08,627 --> 00:22:10,696

IT WAS HERE YOU SPENT 15

565

00:22:10,762 --> 00:22:12,330

GRUELING MONTHS EXECUTING OVER

566

00:22:12,397 --> 00:22:15,033

200 TEST OF THE REDSTONE ROCKET

567

00:22:15,100 --> 00:22:16,868

THAT LAUNCHED AMERICA'S FIRST

568

00:22:16,935 --> 00:22:18,303

ASTRONAUT INTO SPACE, ALLEN

569

00:22:18,370 --> 00:22:21,740

SHEPHERD ON THE MERCURY 7, THE

570

00:22:21,807 --> 00:22:22,874

FREEDOM 7 MERCURY CAPSULE AND IT

571

00:22:22,941 --> 00:22:24,876

WAS HERE YOU ANSWERED THE CALL

572

00:22:24,943 --> 00:22:26,478

OF THE NATION AND STUNNED THE

573

00:22:26,545 --> 00:22:27,979

WORLD IN LESS THAN EIGHT YEARS

574

00:22:28,046 --> 00:22:29,314

YOU BUILT A ROCKET THAT CARRIED

575

00:22:29,381 --> 00:22:31,416

THE FIRST MEN TO THE MOON.

576

00:22:31,483 --> 00:22:34,653

THE MIGHTY SATURN 5.

577

00:22:34,720 --> 00:22:40,192

THAT WE SEE BEFORE US TODAY.

578

00:22:40,258 --> 00:22:41,426

THE HARD-WORKING MEN AND WOMEN

579

00:22:41,493 --> 00:22:42,728

OF ROCKET CENTER HAVE ALWAYS

580

00:22:42,794 --> 00:22:44,129

EMBODIED THE AMERICAN PIONEERING

581

00:22:44,196 --> 00:22:46,765

SPIRIT, RENTLESS ENERGY,

582

00:22:46,832 --> 00:22:48,400

URGENCY, NATIONAL PRIDE, AND

583

00:22:48,467 --> 00:22:49,468

IMPATIENCE WITH ANYTHING LESS

584

00:22:49,534 --> 00:22:51,603

THAN THE BEST.

585

00:22:51,670 --> 00:22:55,006

AND WE KNOW THAT IT WILL BE HERE

586

00:22:55,073 --> 00:22:56,241

IN ROCKET CITY WHERE AMERICA

587

00:22:56,308 --> 00:22:58,176

WILL BUILD A NEW GENERATION OF

588

00:22:58,243 --> 00:23:00,278

ROCKETS THAT WILL CARRY AMERICAN

589

00:23:00,345 --> 00:23:02,214

ASTRONAUTS BACK TO THE MOON, ON

590

00:23:02,280 --> 00:23:03,915

TO MARS AND TO WORLDS BEYOND.

591

00:23:03,982 --> 00:23:05,917

FOR MORE THAN 60 YEARS,

592

00:23:05,984 --> 00:23:07,953

HUNTSVILLE, ALABAMA, HAS BUILT

593

00:23:08,019 --> 00:23:11,523

THE FINEST ROCKET PROPULSION

594

00:23:11,590 --> 00:23:13,291

SYSTEMS IN THE WORLD AND WE WANT

595

00:23:13,358 --> 00:23:14,760

TO ENSURE IT REMAINS THAT WAY

596

00:23:14,826 --> 00:23:16,027

FOR THE NEXT 60 YEARS.

597

00:23:16,094 --> 00:23:18,430

AS WE CONTINUE TO PUSH FARTHER

598

00:23:18,497 --> 00:23:21,900

INTO OUR SOLAR SYSTEM, WELL NEED

599

00:23:21,967 --> 00:23:22,434

INNOVATIVE NEW PROPULSION

600

00:23:22,501 --> 00:23:23,769

SYSTEMS TO GET US THERE

601
00:23:23,835 --> 00:23:24,903
INCLUDING NUCLEAR POWER.

602
00:23:24,970 --> 00:23:32,944
[Applause]

603
00:23:33,011 --> 00:23:33,945
THE PRESIDENCY AND KNOW THERE'S

604
00:23:34,012 --> 00:23:36,348
NO PLACE ON EARTH BETTER

605
00:23:36,414 --> 00:23:39,684
EQUIPPED TO LEAD THE WORLD IN

606
00:23:39,751 --> 00:23:40,919
PIONEERING THESE NEW PROPULSION

607
00:23:40,986 --> 00:23:43,722
TECHNOLOGIES THAN ROCKET CITY,

608
00:23:43,789 --> 00:23:44,256
USA.

609
00:23:44,322 --> 00:23:45,757
NOW, THE CONVENTIONAL WISDOM

610
00:23:45,824 --> 00:23:50,095
SAYS THAT WE'LL ME NEED MORE TIE

611
00:23:50,162 --> 00:23:50,996
TO DO WHAT PRESIDENT TRUMP HAS

612
00:23:51,062 --> 00:23:54,900
CHALLENGED US TO DO, PLANNING

613
00:23:54,966 --> 00:23:55,934

AMERICAN ASTRONAUTS ON THE MOON

614

00:23:56,001 --> 00:23:57,068

WITHIN THE NEXT FIVE YEARS.

615

00:23:57,135 --> 00:23:59,871

SOME WILL SAY IT'S TOO HARD.

616

00:24:01,406 --> 00:24:00,105

,

617

00:24:01,473 --> 00:24:03,708

EXPENSIVE.

618

00:24:03,775 --> 00:24:08,647

BUT THE SAME WAS SAID BACK IN

619

00:24:08,713 --> 00:24:11,082

1962, WHEN PRESIDENT KENNEDY

620

00:24:11,149 --> 00:24:12,384

BOLDLY DECLARED THAT WE IN HIS

621

00:24:12,450 --> 00:24:14,319

WORDS CHOOSE TO GO TO THE MOON

622

00:24:14,386 --> 00:24:17,189

IN THIS DECADE.

623

00:24:17,255 --> 00:24:18,857

OUR SPACE PROGRAM WAS STILL IN

624

00:24:18,924 --> 00:24:19,858

ITS INFANCY THEN.

625

00:24:19,925 --> 00:24:21,660

NASA WAS BARELY TWO YEARS OLD

626
00:24:21,726 --> 00:24:23,094
AND YET PRESIDENT KENNEDY KNEW

627
00:24:23,161 --> 00:24:24,396
THAT HISTORY IS NOT WRITTEN BY

628
00:24:24,462 --> 00:24:26,531
THOSE WHO STUBBORNLY CLING TO

629
00:24:26,598 --> 00:24:27,465
THE STATUS QUO.

630
00:24:27,532 --> 00:24:30,235
HISTORY IS WRITTEN BY THOSE WHO

631
00:24:30,302 --> 00:24:32,037
DARE TO DREAM BIG AND DO THE

632
00:24:32,103 --> 00:24:34,406
IMPOSSIBLE.

633
00:24:34,472 --> 00:24:40,745
[Applause]

634
00:24:40,812 --> 00:24:43,048
THEN AS NOW THE UNITED STATES

635
00:24:43,114 --> 00:24:44,749
DIDN'T HAVE A ROCKET CAPABLE OF

636
00:24:44,816 --> 00:24:46,284
SENDING A SPACECRAFT TO THE

637
00:24:46,351 --> 00:24:48,820
SURFACE OF THE MOON.

638
00:24:48,887 --> 00:24:54,059

BUT NOW AS THEN, THE UNITED

639

00:24:54,125 --> 00:24:57,262

STATES HAS A PRESIDENT WHO IS A

640

00:24:57,329 --> 00:24:59,698

DREAMER WHO UNDERSTANDS THAT

641

00:24:59,764 --> 00:25:02,300

THIS IS A CHALLENGE THAT ONCE

642

00:25:02,367 --> 00:25:04,936

AGAIN WE ARE UNWILLING TO

643

00:25:05,003 --> 00:25:08,473

POSTPONE.

644

00:25:08,540 --> 00:25:10,208

AND ONE WHICH WE INTEND TO WIN

645

00:25:10,275 --> 00:25:10,408

AGAIN.

646

00:25:10,475 --> 00:25:11,176

PRESIDENT TRUMP KNOWS THAT

647

00:25:11,243 --> 00:25:14,012

MEETING THIS CHALLENGE WILL

648

00:25:14,079 --> 00:25:15,714

REQUIRE A GREAT NATIONAL

649

00:25:15,780 --> 00:25:19,050

INVESTMENT OF TIME, TALENT, AND

650

00:25:19,117 --> 00:25:23,421

RESOURCES, THAT THE CO COSTS OF

651
00:25:23,488 --> 00:25:26,191
INACTION ARE GREATER.

652
00:25:26,258 --> 00:25:27,659
THE UNITED STATES MUST REMAIN

653
00:25:27,726 --> 00:25:29,561
FIRST IN SPACE IN THIS CENTURY,

654
00:25:29,628 --> 00:25:31,997
AS IN THE LAST, NOT JUST TO

655
00:25:32,063 --> 00:25:34,132
PROPEL OUR ECONOMY AND SECURE

656
00:25:34,199 --> 00:25:35,734
OUR NATION, BUT ABOVE ALL,

657
00:25:35,800 --> 00:25:37,869
BECAUSE THE RULES AND VALUES OF

658
00:25:37,936 --> 00:25:40,338
SPACE LIKE EVERY GREAT FRONTIER,

659
00:25:40,405 --> 00:25:41,673
WILL BE WRITTEN BY THOSE WHO

660
00:25:41,740 --> 00:25:43,909
HAVE THE COURAGE TO GET THERE

661
00:25:43,975 --> 00:25:46,278
FIRST, AND THE COMMITMENT TO

662
00:25:46,344 --> 00:25:49,047
STAY.

663
00:25:49,114 --> 00:25:52,183

AS AMERICANS, AS HEIRS OF THIS

664

00:25:52,250 --> 00:25:54,686

GREAT NATION DEDICATED TO LIFE,

665

00:25:54,753 --> 00:25:58,490

LIBERTY, AND THE PURSUIT OF

666

00:25:58,556 --> 00:26:00,425

HAPPINESS, IT'S NOTHING LESS

667

00:26:00,492 --> 00:26:03,261

THAN OUR DUTY TO ENSURE THAT OUR

668

00:26:03,328 --> 00:26:06,097

MOST CHERISHED VALUES ARE THE

669

00:26:06,164 --> 00:26:08,934

FOUNDATION OF MANKIND'S FUTURE

670

00:26:09,000 --> 00:26:09,534

IN SPACE.

671

00:26:09,601 --> 00:26:18,877

[Applause]

672

00:26:18,944 --> 00:26:20,078

PRESIDENT TRUMP IS COMMITTED TO

673

00:26:20,145 --> 00:26:21,713

BUILDING A SPACE PROGRAM WORTHY

674

00:26:21,780 --> 00:26:23,181

OF OUR GREAT NATION AND WE'RE

675

00:26:23,248 --> 00:26:25,050

GOING TO CONTINUE TO WORK WITH

676
00:26:25,116 --> 00:26:26,952
LEADERS AND CONGRESS, SENATOR

677
00:26:27,018 --> 00:26:29,587
SHELBY AND OTHERS TO PROVIDE THE

678
00:26:29,654 --> 00:26:30,789
MARSHALL SPACE FLIGHT CENTER AND

679
00:26:30,855 --> 00:26:32,090
ALL OF NASA THE RESOURCES THEY

680
00:26:32,157 --> 00:26:35,026
NEED TO MEET THE GOAL THAT WE

681
00:26:35,093 --> 00:26:36,528
ARTICULATED TODAY.

682
00:26:36,594 --> 00:26:40,799
BUT AS I SAID, MISSIONS

683
00:26:40,865 --> 00:26:41,700
SUCCESSFUL REQUIRE MORE THAN

684
00:26:41,766 --> 00:26:42,300
JUST MONEY.

685
00:26:42,367 --> 00:26:43,601
THAT'S WHY TODAY THE NATIONAL

686
00:26:43,668 --> 00:26:45,036
SPACE COUNCIL WILL SEND

687
00:26:45,103 --> 00:26:45,904
RECOMMENDATIONS TO THE PRESIDENT

688
00:26:45,971 --> 00:26:48,340

THAT WILL LAUNCH A MAJOR COURSE

689

00:26:48,406 --> 00:26:50,141

CORRECTION FOR NASA AND REIGNITE

690

00:26:50,208 --> 00:26:51,910

THAT SPARK OF URGENCY THAT

691

00:26:51,977 --> 00:26:54,212

PROPELLED AMERICA TO THE

692

00:26:54,279 --> 00:26:56,014

VANGUARD OF SPACE EXPLORATION 50

693

00:26:56,081 --> 00:26:56,548

YEARS AGO.

694

00:26:56,614 --> 00:26:58,950

AS YOU WILL HEAR, IN THESE

695

00:26:59,017 --> 00:27:00,151

RECOMMENDATIONS, WE WILL CALL ON

696

00:27:00,218 --> 00:27:02,754

NASA NOT JUST TO ADOPT NEW

697

00:27:02,821 --> 00:27:05,757

POLICIES BUT TO EMBRACE THE NEW

698

00:27:05,824 --> 00:27:09,327

MINDSET THAT BEGINS WITH SETTING

699

00:27:09,394 --> 00:27:11,930

BOLD GOALS AND STAYING ON

700

00:27:11,997 --> 00:27:12,197

SCHEDULE.

701
00:27:12,263 --> 00:27:13,365
TO REACH THE MOON IN THE NEXT

702
00:27:13,431 --> 00:27:16,401
FIVE YEARS, WE MUST SELECT OUR

703
00:27:16,468 --> 00:27:17,102
DESTINATIONS NOW.

704
00:27:17,168 --> 00:27:19,237
NASA ALREADY KNOWS THAT THE

705
00:27:19,304 --> 00:27:21,740
LUNAR SOUTH POLE HOLDS GREAT

706
00:27:21,806 --> 00:27:23,375
SCIENTIFIC, ECONOMIC, AND

707
00:27:23,441 --> 00:27:24,743
STRATEGIC VALUE.

708
00:27:24,809 --> 00:27:27,912
BUT NOW IT'S TIME TO COMMIT TO

709
00:27:27,979 --> 00:27:29,781
GO THERE AND TODAY THE NATIONAL

710
00:27:29,848 --> 00:27:31,082
SPACE COUNCIL WILL RECOMMEND

711
00:27:31,149 --> 00:27:32,951
THAT WHEN THE FIRST AMERICAN

712
00:27:33,018 --> 00:27:34,452
ASTRONAUTS RETURN TO THE LUNAR

713
00:27:34,519 --> 00:27:36,388

SURFACE THAT THEY WILL TAKE

714

00:27:36,454 --> 00:27:38,189

THEIR FIRST STEPS ON THE MOON'S

715

00:27:38,256 --> 00:27:39,924

SOUTH POLE.

716

00:27:39,991 --> 00:27:47,198

[Applause]

717

00:27:47,265 --> 00:27:50,568

BUT IN ORDER TO ACCOMPLISH THIS,

718

00:27:50,635 --> 00:27:51,770

NASA MUST TRANSFORM ITSELF INTO

719

00:27:51,836 --> 00:27:54,072

A LEANER MORE ACCOUNTABLE AND

720

00:27:54,139 --> 00:27:55,907

MORE AGILE ORGANIZATION.

721

00:27:55,974 --> 00:27:57,308

IF NASA IS NOT CURRENTLY CAPABLE

722

00:27:57,375 --> 00:27:58,610

OF LANDING AMERICAN ASTRONAUTS

723

00:27:58,676 --> 00:28:00,712

ON THE MOON IN FIVE YEARS, WE

724

00:28:00,779 --> 00:28:03,381

NEED TO CHANGE THE ORGANIZATION,

725

00:28:03,448 --> 00:28:06,217

NOT THE MISSION.

726
00:28:06,284 --> 00:28:07,919
TO CONTINUE TO BUILD A

727
00:28:07,986 --> 00:28:09,120
WORLD-CLASS WORK FORCE, NASA

728
00:28:09,187 --> 00:28:10,722
NEEDS THE AUTHORITY TO RECRUIT,

729
00:28:10,789 --> 00:28:12,057
TRAIN AND MOTIVATE THE WORLD'S

730
00:28:12,123 --> 00:28:14,692
BEST AND BRIGHTEST SCIENTISTS,

731
00:28:14,759 --> 00:28:16,094
ENGINEERS AND MANAGERS, TO

732
00:28:16,161 --> 00:28:16,995
REMOVE ANY BARRIERS STANDING IN

733
00:28:17,062 --> 00:28:18,196
THEIR WAY AND THAT INCLUDES

734
00:28:18,263 --> 00:28:20,331
BUILDING NEW AND RENEWED

735
00:28:20,398 --> 00:28:22,867
PARTNERSHIPS WITH AMERICA'S

736
00:28:22,934 --> 00:28:24,803
PIONEERING SPACE COMPANIES AND

737
00:28:24,869 --> 00:28:26,237
ENTREPRENEURS.

738
00:28:26,304 --> 00:28:27,605

IN THIS CENTURY, WE'RE GOING

739

00:28:27,672 --> 00:28:28,840

BACK TO THE MOON WITH NEW

740

00:28:28,907 --> 00:28:31,042

AMBITIONS.

741

00:28:31,109 --> 00:28:33,111

NOT JUST TO TRAVEL THERE, NOT

742

00:28:33,178 --> 00:28:35,246

JUST TO DEVELOP TECHNOLOGIES

743

00:28:35,313 --> 00:28:40,185

THERE, BUT ALSO TO MINE OXYGEN

744

00:28:40,251 --> 00:28:41,519

FROM LARUN ROCKS THAT WILL

745

00:28:41,586 --> 00:28:43,321

REFUEL OUR SHIPS TO USE NUCLEAR

746

00:28:43,388 --> 00:28:46,458

POWER TO EXTRACT WATER FROM THE

747

00:28:46,524 --> 00:28:48,460

PERMANENTLY SHADOWED CRATERS OF

748

00:28:48,526 --> 00:28:49,861

THE SOUTH POLE AND TO FLY ON A

749

00:28:49,928 --> 00:28:52,597

NEW GENERATION OF SPACECRAFT

750

00:28:52,664 --> 00:28:54,732

THAT WILL ENABLE US TO REACH

751
00:28:54,799 --> 00:28:56,768
MARS NOT IN YEARS BUT IN MONTHS.

752
00:28:56,835 --> 00:28:58,770
TO DEVELOP THESE NEW

753
00:28:58,837 --> 00:29:00,572
TECHNOLOGIES, NASA MUST ADOPT AN

754
00:29:00,638 --> 00:29:03,408
ALL-HANDS-ON-DECK APPROACH TO

755
00:29:03,475 --> 00:29:04,642
PROCUREMENT, CONTRACTS AND ITS

756
00:29:04,709 --> 00:29:05,110
PARTNERSHIPS.

757
00:29:05,176 --> 00:29:06,511
IF A COMMERCIAL COMPANY CAN

758
00:29:06,578 --> 00:29:11,082
DELIVER A ROCKET, A LUNAR LANDER

759
00:29:11,149 --> 00:29:12,183
OR ANY OTHER CAPABILITY FASTER

760
00:29:12,250 --> 00:29:14,786
AT A LOWER COST TO THE TAXPAYER

761
00:29:14,853 --> 00:29:17,522
THAN THE STATUS QUO, THEN NASA

762
00:29:17,589 --> 00:29:18,456
NEEDS TO HAVE THE AUTHORITY AND

763
00:29:18,523 --> 00:29:19,757

THE COURAGE TO CHANGE COURSE

764

00:29:19,824 --> 00:29:21,259

QUICKLY AND DECISIVELY TO

765

00:29:21,326 --> 00:29:22,260

ACHIEVE THAT GOAL.

766

00:29:22,327 --> 00:29:29,701

[Applause]

767

00:29:29,767 --> 00:29:31,836

AS WE PROVED DURING THE APOLLO

768

00:29:31,903 --> 00:29:33,738

PROGRAM, WE DON'T NEED TO

769

00:29:33,805 --> 00:29:35,707

SA QUALITY OR SAFETY TO

770

00:29:35,773 --> 00:29:37,609

ACHIEVE SPEED AND EFFICIENCY.

771

00:29:37,675 --> 00:29:39,644

WE'RE NOT ASKING ANYONE TO TAKE

772

00:29:39,711 --> 00:29:41,246

UNNECESSARY RISKS.

773

00:29:41,312 --> 00:29:43,648

RATHER, WE'RE CHALLENGING

774

00:29:43,715 --> 00:29:45,683

EVERYONE INVOLVED IN AMERICA'S

775

00:29:45,750 --> 00:29:49,020

SPACE ENTERPRISE TO THINK

776
00:29:49,087 --> 00:29:52,090
BIGGER, FAIL SMARTER, AND WORK

777
00:29:52,157 --> 00:29:56,127
HARDER THAN EVER BEFORE.

778
00:29:56,194 --> 00:29:58,263
THE TASK BEFORE US WILL INVOLVE

779
00:29:58,329 --> 00:30:02,767
SACRIFICE AND DETERMINATION.

780
00:30:02,834 --> 00:30:04,869
HARDSHIP AND HAZARD.

781
00:30:04,936 --> 00:30:06,404
BUT AS WE EMBARK ON THIS

782
00:30:06,471 --> 00:30:08,006
JOURNEY, WE WILL DO WELL TO

783
00:30:08,072 --> 00:30:10,542
REMEMBER THE WORDS SPOKEN BY THE

784
00:30:10,608 --> 00:30:13,344
LATE GENE CERNAN, THE LAST MAN

785
00:30:13,411 --> 00:30:15,079
TO WALK ON THE MOON.

786
00:30:15,146 --> 00:30:18,116
BEFORE WE BOARDED THE LUNAR

787
00:30:18,183 --> 00:30:20,218
MODULE 45 YEARS AGO, GENE SAID,

788
00:30:20,285 --> 00:30:23,555

AND I QUOTE, AMERICA'S CHALLENGE

789

00:30:23,621 --> 00:30:26,157

OF TODAY HAS FORGED MAN'S

790

00:30:26,224 --> 00:30:30,595

DESTINY OF TOMORROW.

791

00:30:30,662 --> 00:30:33,331

AS GENE CERNAN KNEW THEN, THE

792

00:30:33,398 --> 00:30:35,333

EXPLORATION OF THE HEAVENS IN

793

00:30:35,400 --> 00:30:38,136

THIS STILL NEW CENTURY WILL GO

794

00:30:38,203 --> 00:30:41,873

FORWARD.

795

00:30:41,940 --> 00:30:43,107

WITH OR WITHOUT THE UNITED

796

00:30:43,174 --> 00:30:46,411

STATES.

797

00:30:46,477 --> 00:30:49,948

BUT AMERICANS DON'T DO SECOND

798

00:30:50,014 --> 00:30:50,148

PLACE.

799

00:30:50,215 --> 00:30:50,515

AMERICANS LEAD.

800

00:30:50,582 --> 00:30:53,084

[Applause]

801
00:30:53,151 --> 00:30:59,524
AND SO WE WILL.

802
00:30:59,591 --> 00:31:01,259
SO AS WE CONVENE THIS FIFTH

803
00:31:01,326 --> 00:31:03,428
MEETING OF THE STILL NEWLY

804
00:31:03,494 --> 00:31:04,262
RECONSTITUTED NATIONAL SPACE

805
00:31:04,329 --> 00:31:06,598
COUNCIL, THE PRESIDENCY AND ARE

806
00:31:06,664 --> 00:31:08,199
CHALLENGING ALL OF YOU HERE IN

807
00:31:08,266 --> 00:31:09,734
ROCKET CITY AND ALL OF THOSE

808
00:31:09,801 --> 00:31:10,935
INVOLVED IN THE SPACE ENTERPRISE

809
00:31:11,002 --> 00:31:16,474
THAT ARE LOOKING ON ACROSS THE

810
00:31:16,541 --> 00:31:17,775
NATION, STEP UP.

811
00:31:17,842 --> 00:31:23,114
GET READY TO DO YOUR PART TO

812
00:31:23,181 --> 00:31:25,750
HELP LEAD OUR NATION INTO THE

813
00:31:25,817 --> 00:31:27,885

VAST EXPANSE OF SPACE AGAIN.

814

00:31:27,952 --> 00:31:30,388

AS WE RENEW OUR COMMITMENT TO

815

00:31:30,455 --> 00:31:32,690

LEAD IN SPACE, LET'S GO WITH

816

00:31:32,757 --> 00:31:37,462

CONFIDENCE AND LET'S GO WITH

817

00:31:37,528 --> 00:31:38,730

FAITH.

818

00:31:38,796 --> 00:31:40,865

FAITH IN THE VISION AND THE GOAL

819

00:31:40,932 --> 00:31:43,001

THAT'S ARTICULATED TODAY THAT WE

820

00:31:43,067 --> 00:31:44,302

CAN ACHIEVE IT.

821

00:31:44,369 --> 00:31:45,303

AMERICANS CAN ACHIEVE ANYTHING

822

00:31:45,370 --> 00:31:49,841

THAT WE PUT OUR MINDS TO.

823

00:31:49,907 --> 00:31:53,278

FAITH IN THE EXTRAORDINARY

824

00:31:53,344 --> 00:31:54,779

INGENUITY AND CAPABILITY OF THE

825

00:31:54,846 --> 00:31:59,717

MEN AND WOMEN OF NASA AND

826

00:31:59,784 --> 00:32:00,518

AMERICA'S SPACE ENTERPRISE,

827

00:32:00,585 --> 00:32:03,454

THEIR ABILITY TO MEET THOSE

828

00:32:03,521 --> 00:32:04,555

CHALLENGES IF GIVEN THE

829

00:32:04,622 --> 00:32:07,992

RESOURCES AND THE SUPPORT TO DO

830

00:32:08,059 --> 00:32:08,192

IT.

831

00:32:08,259 --> 00:32:12,130

AND ESPECIALLY FAITH IN THE

832

00:32:12,196 --> 00:32:15,466

COURAGE OF THE MEN AND WOMEN WHO

833

00:32:15,533 --> 00:32:17,568

ARE NOW AND THOSE WHO WILL JOIN

834

00:32:17,635 --> 00:32:21,105

THE STORIED RANKS OF AMERICAN

835

00:32:21,172 --> 00:32:22,674

ASTRONAUTS, THAT NEXT GENERATION

836

00:32:22,740 --> 00:32:25,109

OF RESTLESS PIONEERS THAT WILL

837

00:32:25,176 --> 00:32:27,245

CARRY AMERICAN LEADERSHIP INTO

838

00:32:27,312 --> 00:32:31,282

SPACE.

839

00:32:31,349 --> 00:32:35,186

IT IS EXTRAORDINARY TO THINK OF

840

00:32:35,253 --> 00:32:36,821

THE HEROES THAT WILL BE FORGED

841

00:32:36,888 --> 00:32:38,089

IN OUR RENEWED COMMITMENT TO

842

00:32:38,156 --> 00:32:40,124

SPACE.

843

00:32:40,191 --> 00:32:42,960

AND LASTLY, LET'S HAVE THAT

844

00:32:43,027 --> 00:32:48,299

OTHER KIND OF FAITH AS WELL.

845

00:32:48,366 --> 00:32:50,401

LET'S HAVE THAT FAITH AS AMERICA

846

00:32:50,468 --> 00:32:51,202

RENEWS OUR COMMITMENT TO

847

00:32:51,269 --> 00:32:53,971

LEADERSHIP IN SPACE AS WE CALL

848

00:32:54,038 --> 00:32:56,474

ON OUR BEST AND BRIGHTEST MINDS

849

00:32:56,541 --> 00:32:59,077

TO ACHIEVE THOSE GOALS AND WE

850

00:32:59,143 --> 00:33:02,213

CALL ON OUR MOST COURAGEOUS TO

851
00:33:02,280 --> 00:33:04,749
SUIT UP AND GO.

852
00:33:04,816 --> 00:33:09,887
THAT THOSE THAT WE SEND THE MUST

853
00:33:09,954 --> 00:33:14,125
HAVE FAITH THAT THEY WILL NOT GO

854
00:33:14,192 --> 00:33:15,326
ALONE, WHEREAS MILLIONS OF

855
00:33:15,393 --> 00:33:16,728
AMERICANS HAVE CHERISHED

856
00:33:16,794 --> 00:33:20,965
THROUGHOUT OUR LONG AND STORIED

857
00:33:21,032 --> 00:33:23,000
HISTORY OF EXPLORATION BY THIS

858
00:33:23,067 --> 00:33:25,903
NATION.

859
00:33:25,970 --> 00:33:30,842
LET'S BELIEVE AS THE OLD BOOK

860
00:33:30,908 --> 00:33:33,644
SAYS, THAT THERE'S NOWHERE WE

861
00:33:33,711 --> 00:33:35,279
CAN GO FROM HIS SPIRIT IF WE

862
00:33:35,346 --> 00:33:36,280
RISE ON THE WINGS OF THE DAWN IF

863
00:33:36,347 --> 00:33:37,915

WE SETTLE ON THE FAR SIDE OF THE

864

00:33:37,982 --> 00:33:42,220

SEA, EVEN IF WE GO UP TO THE

865

00:33:42,286 --> 00:33:44,255

HEAVENS, THERE HIS HAND WILL

866

00:33:44,322 --> 00:33:48,760

GUIDE US AND HIS RIGHT HAND WILL

867

00:33:48,826 --> 00:33:50,027

HOLD US FAST.

868

00:33:50,094 --> 00:33:55,733

[Applause]

869

00:33:55,800 --> 00:33:56,734

SO THANK YOU FOR THE OPPORTUNITY

870

00:33:56,801 --> 00:33:58,469

TO BE WITH YOU TODAY.

871

00:33:58,536 --> 00:33:59,904

THANKS AGAIN TO ALL THE MEMBERS

872

00:33:59,971 --> 00:34:02,106

OF THE NATIONAL SPACE COUNCIL

873

00:34:02,173 --> 00:34:03,674

AND ALL THE EXTRAORDINARY

874

00:34:03,741 --> 00:34:06,310

AMERICANS GATHERED HERE TODAY.

875

00:34:06,377 --> 00:34:07,211

I LEAVE HERE WITH CONFIDENCE

876

00:34:07,278 --> 00:34:09,814

THAT WITH THE LEADERSHIP OF

877

00:34:09,881 --> 00:34:11,749

PRESIDENT DONALD TRUMP, WITH OUR

878

00:34:11,816 --> 00:34:13,151

RENEWED COMMITMENT TO SPACE WITH

879

00:34:13,217 --> 00:34:14,786

THE COURAGE AND INGENUITY OF

880

00:34:14,852 --> 00:34:16,687

THIS NEW GENERATION OF EXPLORERS

881

00:34:16,754 --> 00:34:19,223

AND WITH GOD'S HELP, THAT

882

00:34:19,290 --> 00:34:21,859

AMERICA WILL ONCE AGAIN ASTONISH

883

00:34:21,926 --> 00:34:24,862

THE WORLD WITH THE HEIGHTS WE

884

00:34:24,929 --> 00:34:26,898

REACH, THE WONDERS WE ACHIEVE,

885

00:34:26,964 --> 00:34:29,801

AND WE WILL LEAD THE WORLD IN

886

00:34:29,867 --> 00:34:32,136

HUMAN SPACE EXPLORATION ONCE

887

00:34:32,203 --> 00:34:32,937

AGAIN.

888

00:34:33,004 --> 00:34:34,739

NOW LET'S GET TO WORK.

889

00:34:34,806 --> 00:34:35,773

THANK YOU ALL.

890

00:34:35,840 --> 00:34:36,674

GOD BLESS YOU.

891

00:34:36,741 --> 00:34:40,411

[Cheering and Applause]

892

00:34:40,478 --> 00:35:24,489

[■]

893

00:35:24,555 --> 00:35:27,825

>> THANK YOU ALL, AND AGAIN,

894

00:35:27,892 --> 00:35:29,994

THANK YOU FOR THE OPPORTUNITY TO

895

00:35:30,061 --> 00:35:31,896

ADDRESS YOU.

896

00:35:31,963 --> 00:35:33,898

BUT ESPECIALLY THANK YOU ALL FOR

897

00:35:33,965 --> 00:35:35,733

ATTENDING THIS FIFTH MEETING OF

898

00:35:35,800 --> 00:35:38,669

THE NATIONAL SPACE COUNCIL,

899

00:35:38,736 --> 00:35:40,238

WHICH AS CHAIRMAN I CALL TO

900

00:35:40,304 --> 00:35:42,073

ORDER AT THIS TIME, AND WELCOME

901
00:35:42,139 --> 00:35:44,375
TO THE SATURN 5 HALL OF THE U.S.

902
00:35:44,442 --> 00:35:45,343
SPACE AND ROCKET CENTER.

903
00:35:45,409 --> 00:35:47,245
WOULD YOU GIVE OUR HOSTS ANOTHER

904
00:35:47,311 --> 00:35:48,446
ROUND OF APPLAUSE.

905
00:35:48,513 --> 00:35:54,852
[Applause]

906
00:35:54,919 --> 00:35:56,954
I ALSO WANT TO THANK ONCE AGAIN

907
00:35:57,021 --> 00:35:58,689
MEMBERS OF OUR USER ADVISORY

908
00:35:58,756 --> 00:35:59,290
GROUP.

909
00:35:59,357 --> 00:36:02,994
WE MET BRIEFLY BEFORE.

910
00:36:03,060 --> 00:36:04,428
WE'LL HEAR FROM MEMBERS OF THE

911
00:36:04,495 --> 00:36:07,331
USER ADVISORY GROUP ALONG THE

912
00:36:07,398 --> 00:36:11,936
COURSE, AND LET ME AGAIN THANK

913
00:36:12,003 --> 00:36:14,372

GOVERNOR KAY IVY AND THE WHOLE

914

00:36:14,438 --> 00:36:16,240

TEAM HERE IN HUNTSVILLE AND THE

915

00:36:16,307 --> 00:36:17,308

LEADERSHIP IN ALABAMA FOR YOUR

916

00:36:17,375 --> 00:36:17,775

GREAT SUPPORT.

917

00:36:17,842 --> 00:36:24,348

[Applause]

918

00:36:24,415 --> 00:36:26,150

TODAY'S MEETING IS GOING TO

919

00:36:26,217 --> 00:36:27,685

OFFER INSIGHT INTO THE PROGRESS

920

00:36:27,752 --> 00:36:30,187

OF OUR SPACE POLICY DIRECTIVE 1

921

00:36:30,254 --> 00:36:33,724

AS I JUST DISCUSSED AND THE

922

00:36:33,791 --> 00:36:35,159

GOALS WE ARTICULATED ON BEHALF

923

00:36:35,226 --> 00:36:36,227

OF THE PRESIDENT OF THE UNITED

924

00:36:36,294 --> 00:36:38,162

STATES BUT FIRST I WANT TO TURN

925

00:36:38,229 --> 00:36:39,463

TO THE CHAIRMAN OF THE NATIONAL

926
00:36:39,530 --> 00:36:42,967
SPACE COUNCIL'S USER ADVISORY

927
00:36:43,034 --> 00:36:46,837
GROUP AND HAVE AN OPPORTUNITY TO

928
00:36:46,904 --> 00:36:49,140
REPORT ON THE WORK THAT THIS

929
00:36:49,206 --> 00:36:49,974
EXTRAORDINARY DISTINGUISHED

930
00:36:50,041 --> 00:36:52,276
GROUP OF AMERICANS ARE DOING.

931
00:36:52,343 --> 00:36:53,911
THEN WE'LL TURN TO THE MEMBERS

932
00:36:53,978 --> 00:36:55,713
OF THE NATIONAL SPACE COUNCIL

933
00:36:55,780 --> 00:36:57,214
FOR REPORTS AND HEAR FROM OUR

934
00:36:57,281 --> 00:36:59,850
PANELS BUT JOIN ME IN THANKING

935
00:36:59,917 --> 00:37:02,753
ADMIRAL JIM ELLIS FOR HIS GREAT

936
00:37:02,820 --> 00:37:04,589
LEADERSHIP.

937
00:37:04,655 --> 00:37:04,889
THANK YOU.

938
00:37:04,956 --> 00:37:10,328

[Applause]

939

00:37:10,394 --> 00:37:11,128

>> PRESIDENT, DISTINGUISHED

940

00:37:11,195 --> 00:37:12,129

MEMBERS, THANK YOU FOR INVITING

941

00:37:12,196 --> 00:37:14,465

ME TO PROVIDE AN UPDATE ON THE

942

00:37:14,532 --> 00:37:15,466

ACTIVITIES OF THE USERS ADVISORY

943

00:37:15,533 --> 00:37:17,969

GROUP TO YOUR NATIONAL SPACE

944

00:37:18,035 --> 00:37:18,202

COUNCIL.

945

00:37:18,269 --> 00:37:19,303

THANK YOU AS WELL,

946

00:37:19,370 --> 00:37:21,505

Mr. VICE-PRESIDENT, FOR

947

00:37:21,572 --> 00:37:22,740

INFORMALLY ADDRESSING THE USERS

948

00:37:22,807 --> 00:37:23,541

ADVISORY GROUP MEMBERS GATHERED

949

00:37:23,608 --> 00:37:24,508

HERE IN HUNTSVILLE THIS MORNING.

950

00:37:24,575 --> 00:37:28,479

AFTER THE CONCLUSION OF THEIR

951
00:37:28,546 --> 00:37:32,016
SUBCOMMITTEE PREPARATORY

952
00:37:32,083 --> 00:37:32,516
DISCUSSIONS.

953
00:37:32,583 --> 00:37:33,951
YOUR SUPPORT AND ENCOURAGEMENT

954
00:37:34,018 --> 00:37:36,153
IS APPRECIATED AS WE TRANSLATE

955
00:37:36,220 --> 00:37:37,955
THE PRELIMINARY CONVERSATIONS

956
00:37:38,022 --> 00:37:40,691
INTO FUTURE PUBLIC DISCUSSION

957
00:37:40,758 --> 00:37:43,694
AND COMMENT FOR THE FINDINGS TO

958
00:37:43,761 --> 00:37:44,195
TO COUNCIL.

959
00:37:44,261 --> 00:37:46,230
ALONG THE LINES THE USERS

960
00:37:46,297 --> 00:37:47,231
ADVISORY GROUP HELD ITS SECOND

961
00:37:47,298 --> 00:37:48,899
PUBLIC MEETING ON NOVEMBER

962
00:37:48,966 --> 00:37:50,468
15th, 2018 AT NASA

963
00:37:50,534 --> 00:37:52,670

HEADQUARTERS IN WASHINGTON, DC.

964

00:37:52,737 --> 00:37:59,844

THE SIX USERS SUBCOMMITTEES EACH

965

00:37:59,910 --> 00:38:01,445

REPORTED THEIR TERMS OF

966

00:38:01,512 --> 00:38:03,781

REFERENCE DEVELOPED DURING THEIR

967

00:38:03,848 --> 00:38:05,983

PREPARATORY WORK AND APPROVED BY

968

00:38:06,050 --> 00:38:07,018

NASA STARTER JIM BRIDENSTINE.

969

00:38:07,084 --> 00:38:08,819

A SERIES OF SELECTED BRIEFINGS

970

00:38:08,886 --> 00:38:11,122

TO THE UAG FOLLOWED.

971

00:38:11,188 --> 00:38:12,023

NASA LEADERSHIP PROVIDED AN

972

00:38:12,089 --> 00:38:14,458

UPDATE TO THE UAG ON THE STATE

973

00:38:14,525 --> 00:38:16,193

OF THE NATIONAL SPACE

974

00:38:16,260 --> 00:38:17,395

EXPLORATION CAMPAIGN IN

975

00:38:17,461 --> 00:38:18,896

COMPLIANCE WITH SPACE POLICY

976
00:38:18,963 --> 00:38:19,797
DIRECTIVE ONE.

977
00:38:19,864 --> 00:38:22,299
THE SPOKESMAN SUMMARIZED THE

978
00:38:22,366 --> 00:38:24,068
PLANS FOR TRANSITIONING FROM THE

979
00:38:24,135 --> 00:38:25,770
ISS, BUILDING A GATEWAY IN LUNAR

980
00:38:25,836 --> 00:38:27,171
ORBIT AND DEVELOPING A

981
00:38:27,238 --> 00:38:28,472
THREE-STAGE ARCHITECTURE

982
00:38:28,539 --> 00:38:29,407
INTENDED TO RETURN AMERICAN

983
00:38:29,473 --> 00:38:30,908
ASTRONAUTS TO THE MOON ON THE

984
00:38:30,975 --> 00:38:33,210
DATE YOU NOTED EARLIER, 2028.

985
00:38:33,277 --> 00:38:34,645
UAG MEMBERS REPEATEDLY FOR

986
00:38:34,712 --> 00:38:36,781
EXAMPLES CONCERN AT THE LONG

987
00:38:36,847 --> 00:38:38,783
TIMELINE AND FUNDING SENSITIVITY

988
00:38:38,849 --> 00:38:39,984

FOR THE PLAN AND FELT IT COULD

989

00:38:40,051 --> 00:38:41,185

OPEN THE DOOR TO U.S. BEING

990

00:38:41,252 --> 00:38:43,320

PASSED BY A GEOPOLITICAL RIVAL

991

00:38:43,387 --> 00:38:45,356

SUCH AS CHINA OR RUSSIA IN

992

00:38:45,423 --> 00:38:46,657

RETURNING TO THE MOON.

993

00:38:46,724 --> 00:38:48,759

A FEW UAG MEMBERS ALSO

994

00:38:48,826 --> 00:38:50,194

QUESTIONED THE NEED FOR THE

995

00:38:50,261 --> 00:38:51,529

GATEWAY VIEWING IN DIVERSION OF

996

00:38:51,595 --> 00:38:53,297

TIME AND RESOURCES AWAY FROM THE

997

00:38:53,364 --> 00:38:55,132

MORE IMPORTANT GOAL OF

998

00:38:55,199 --> 00:38:57,635

ESTABLISHING A PERMANENT

999

00:38:57,702 --> 00:38:59,370

PRESENCE ON THE LUNAR SURFACE.

1000

00:38:59,437 --> 00:38:59,970

Dr. ERIC SCHMIDT ALSO STATED

1001
00:39:00,037 --> 00:39:01,672
THE PLAN DID NOT DO ENOUGH TO

1002
00:39:01,739 --> 00:39:02,707
INCORPORATE THE QUICK PACE OF

1003
00:39:02,773 --> 00:39:03,574
ITERATION AND TESTING

1004
00:39:03,641 --> 00:39:04,809
TRADITIONALLY FOUND IN THE

1005
00:39:04,875 --> 00:39:06,010
TECHNOLOGY SECTOR.

1006
00:39:06,077 --> 00:39:06,944
HE FELT THE GOVERNMENT NEEDED TO

1007
00:39:07,011 --> 00:39:08,946
DO MORE TO INCORPORATE

1008
00:39:09,013 --> 00:39:12,717
COMMERCIAL COMPETITION AND

1009
00:39:12,783 --> 00:39:13,784
INNOVATION INTO ITS

1010
00:39:13,851 --> 00:39:15,686
ARCHITECTURES GOING FORWARD.

1011
00:39:15,753 --> 00:39:18,089
Mr. JIM CROCKER, VICE-CHAIR OF

1012
00:39:18,155 --> 00:39:19,724
THE SPACE STUDIES BOARD OF THE

1013
00:39:19,790 --> 00:39:21,425

NATIONAL ACADEMY OF SCIENCES,

1014

00:39:21,492 --> 00:39:22,359

ENGINEERING AND MEDICINE BRIEFED

1015

00:39:22,426 --> 00:39:23,861

THE UAG ON HIS VIEWS AND THE

1016

00:39:23,928 --> 00:39:25,930

NEEDS OF THE SPACE SCIENCE

1017

00:39:25,996 --> 00:39:32,436

COMMITTEE IN THE DECADAL SURVEY

1018

00:39:32,503 --> 00:39:32,670

PROCESS.

1019

00:39:32,737 --> 00:39:35,139

LIKENING TO THE TRANSCONTINENTAL

1020

00:39:35,206 --> 00:39:37,475

RAILROAD, AMBITIOUS TECHNICAL

1021

00:39:37,541 --> 00:39:38,309

PROJECTS CONCEIVED DURING

1022

00:39:38,375 --> 00:39:38,743

CHALLENGING TIMES.

1023

00:39:38,809 --> 00:39:40,111

IN THE LAST BRIEFING UNDER

1024

00:39:40,177 --> 00:39:44,815

SECRETARY OF DEFENSE FOR POLICY

1025

00:39:44,882 --> 00:39:45,449

JOHN RUDD AND SECRETARY OF

1026
00:39:45,516 --> 00:39:47,151
DEFENSE FOR RESEARCH AND

1027
00:39:47,218 --> 00:39:49,186
ENGINEERING Dr. MIKE GRIFFIN

1028
00:39:49,253 --> 00:39:51,689
BRIEFED ON THE NATIONAL SECURITY

1029
00:39:51,756 --> 00:39:51,922
SPACE.

1030
00:39:51,989 --> 00:39:53,324
BOTH EMPHASIZED A SHIFT AWAY

1031
00:39:53,390 --> 00:39:55,459
FROM TERRORISM TO NEAR PEER

1032
00:39:55,526 --> 00:39:56,527
COMPETITORS SUCH AS CHINA AND

1033
00:39:56,594 --> 00:39:58,763
RUSSIA AND THE INCREASING

1034
00:39:58,829 --> 00:40:00,264
POSSIBILITY OF SPACE BECOMING A

1035
00:40:00,331 --> 00:40:01,198
THEATER OF CONFLICT.

1036
00:40:01,265 --> 00:40:02,199
THEY DESCRIBED THEIR VIEWS ON

1037
00:40:02,266 --> 00:40:03,667
HOW A SPACE FORCE COULD FUNCTION

1038
00:40:03,734 --> 00:40:05,336

AND Dr. GRIFFIN EMPHASIZED THE

1039

00:40:05,402 --> 00:40:09,140

NEED TO MAKE A DIFFERENT

1040

00:40:09,206 --> 00:40:11,075

BUREAUCRATIC CULTURE AND SILO OF

1041

00:40:11,142 --> 00:40:14,512

INFORMATION WORK TOGETHER IN

1042

00:40:14,578 --> 00:40:16,213

CREATIVE AND EFFECTIVE WAYS

1043

00:40:16,280 --> 00:40:17,548

GOING FORWARD.

1044

00:40:17,615 --> 00:40:18,916

UAG MEMBERS ENDED THE SECTION

1045

00:40:18,983 --> 00:40:19,850

WITH A FRANK DISCUSSION ABOUT

1046

00:40:19,917 --> 00:40:21,252

THE TARGET DATE OF 2028

1047

00:40:21,318 --> 00:40:22,386

RETURNING TO THE MOON BEING

1048

00:40:22,453 --> 00:40:24,088

INSUFFICIENT IN TODAY'S

1049

00:40:24,155 --> 00:40:25,122

GEOPOLITICAL CLIMATE.

1050

00:40:25,189 --> 00:40:27,324

FINALLY, Mr. CHAIRMAN, IN THE

1051
00:40:27,391 --> 00:40:28,726
SEVERAL MONTHS SINCE THE LAST

1052
00:40:28,793 --> 00:40:30,227
UAG MEETING THE UAG

1053
00:40:30,294 --> 00:40:32,062
SUBCOMMITTEES AND THE EXECUTIVE

1054
00:40:32,129 --> 00:40:34,198
COMMITTEE COMPRISED OF THEIR

1055
00:40:34,265 --> 00:40:38,035
CHAIRS HAVE MET REPEATEDLY

1056
00:40:38,102 --> 00:40:39,236
PURSUING THEIR PERSPECTIVE TOPIC

1057
00:40:39,303 --> 00:40:40,838
WORK PLANS FOR PUBLIC

1058
00:40:40,905 --> 00:40:41,138
DISCUSSION.

1059
00:40:41,205 --> 00:40:42,773
I HAVE MET REGULARLY WITH THE

1060
00:40:42,840 --> 00:40:44,141
EXECUTIVE SECRETARY OF YOUR

1061
00:40:44,208 --> 00:40:45,776
NATIONAL SPACE COUNCIL TO

1062
00:40:45,843 --> 00:40:47,077
ASSESS, ADDRESS, AND PRIORITIZE

1063
00:40:47,144 --> 00:40:48,512

FOR NATIONAL SPACE COUNCIL

1064

00:40:48,579 --> 00:40:50,915

REVIEW AND APPROVAL A NUMBER OF

1065

00:40:50,981 --> 00:40:51,282

RECOMMENDATIONS.

1066

00:40:51,348 --> 00:40:53,951

OF PARTICULAR VALUE IN THAT

1067

00:40:54,018 --> 00:40:56,954

PROCESS WERE TWO SESSIONS WE

1068

00:40:57,021 --> 00:40:57,688

HELD AT THE WHITE HOUSE YOU

1069

00:40:57,755 --> 00:40:59,223

WITH, Mr. VICE-PRESIDENT,

1070

00:40:59,290 --> 00:41:00,491

WHICH WERE VERY HELPFUL IN

1071

00:41:00,558 --> 00:41:01,792

ADVANCING OUR UNDERSTANDING OF

1072

00:41:01,859 --> 00:41:04,528

HOW AND WHERE THE UAG COULD BE

1073

00:41:04,595 --> 00:41:05,329

MOST IMPACTFUL.

1074

00:41:05,396 --> 00:41:08,065

AS YOU KNOW WELL, THE TASKS

1075

00:41:08,132 --> 00:41:09,166

IDENTIFIED IN THAT PROCESS

1076
00:41:09,233 --> 00:41:13,404
INCLUDE STRUCTURING THE UAG FOR

1077
00:41:13,470 --> 00:41:14,705
LONG-TERM EFFECTIVENESS,

1078
00:41:14,772 --> 00:41:16,740
ASSESSING AND ACCELERATING THE

1079
00:41:16,807 --> 00:41:18,943
U.S. ARCHITECTURE, RENEWING THE

1080
00:41:19,009 --> 00:41:20,644
SPACE FORCE ORGANIZATION,

1081
00:41:20,711 --> 00:41:21,145
CHARACTERIZING EFFECTIVE

1082
00:41:21,212 --> 00:41:21,879
INTERNATIONAL SPACE COOPERATION

1083
00:41:21,946 --> 00:41:24,114
AND SUPPORT OF U.S. SPACE

1084
00:41:24,181 --> 00:41:25,850
LEADERSHIP, UPDATING A CRITICAL

1085
00:41:25,916 --> 00:41:27,718
TECHNOLOGY ROADMAP FOR LUNAR

1086
00:41:27,785 --> 00:41:29,553
EXPLORATION AND BEYOND AND

1087
00:41:29,620 --> 00:41:31,922
REVIEW OF SPACE SPECTRUM POLICY

1088
00:41:31,989 --> 00:41:33,691

AND PROCESS TO ENHANCE THE

1089

00:41:33,757 --> 00:41:35,292

COMPETITIVENESS AND SECURITY OF

1090

00:41:35,359 --> 00:41:37,895

THE U.S. SPACE SECTOR.

1091

00:41:37,962 --> 00:41:39,864

FOCUSED TERMS OF REFERENCE FOR

1092

00:41:39,930 --> 00:41:42,032

EACH OF THESE TASKS WILL BE

1093

00:41:42,099 --> 00:41:43,467

DRAFTED FOR THE COUNCIL'S REVIEW

1094

00:41:43,534 --> 00:41:45,169

AND APPROVAL AND FOLLOWED BY

1095

00:41:45,236 --> 00:41:45,769

APPROPRIATE PUBLIC DISCUSSION

1096

00:41:45,836 --> 00:41:47,004

AND A CREATION OF FORMAL

1097

00:41:47,071 --> 00:41:48,305

FINDINGS AND RECOMMENDATIONS

1098

00:41:48,372 --> 00:41:49,907

FROM THE USERS ADVISORY GROUP TO

1099

00:41:49,974 --> 00:41:52,576

THE NATIONAL SPACE COUNCIL.

1100

00:41:52,643 --> 00:41:56,780

Mr. CHAIRMAN, ON BEHALF OF THE

1101
00:41:56,847 --> 00:41:59,116
USERS ADVISORY GROUP, THANK YOU

1102
00:41:59,183 --> 00:42:00,150
FOR THIS UPDATED OPPORTUNITY.

1103
00:42:00,217 --> 00:42:01,318
WE APPRECIATE THE FOCUS YOU AND

1104
00:42:01,385 --> 00:42:02,253
THE NATIONAL SPACE COUNCIL HAVE

1105
00:42:02,319 --> 00:42:03,454
BROUGHT TO OUR NATION'S ROLE IN

1106
00:42:03,520 --> 00:42:04,421
SPACE AND WE LOOK FORWARD TO

1107
00:42:04,488 --> 00:42:05,456
CONTINUING TO SUPPORT YOUR

1108
00:42:05,522 --> 00:42:06,991
EFFORTS INTO OUR SHARED

1109
00:42:07,057 --> 00:42:08,192
CONTRIBUTIONS TO THE FUTURE OF

1110
00:42:08,259 --> 00:42:10,394
THE NATION'S SPACE ENTERPRISE.

1111
00:42:10,461 --> 00:42:11,528
I WOULD BE PLEASED TO TAKE ANY

1112
00:42:11,595 --> 00:42:14,465
QUESTIONS YOU MIGHT HAVE.

1113
00:42:14,531 --> 00:42:18,302

>> THANK YOU, ADMIRAL ELLIS.

1114

00:42:18,369 --> 00:42:20,804

IN FACT, WE ARE SO GRATEFUL FOR

1115

00:42:20,871 --> 00:42:24,041

THAT REPORT, THE ENERGETIC WORK.

1116

00:42:24,108 --> 00:42:25,042

I WOULD ENCOURAGE ANYONE LOOKING

1117

00:42:25,109 --> 00:42:29,179

ON TO SEE THE LIST OF

1118

00:42:29,246 --> 00:42:30,281

EXTRAORDINARY AMERICANS WHO ARE

1119

00:42:30,347 --> 00:42:32,883

PARTICIPATING IN THE USER

1120

00:42:32,950 --> 00:42:33,918

ADVISORY GROUP AND COUNCIL THAT

1121

00:42:33,984 --> 00:42:37,121

YOU ARE BRINGING COLLECTIVELY TO

1122

00:42:37,187 --> 00:42:38,255

THIS EFFORT HAS CONTRIBUTED

1123

00:42:38,322 --> 00:42:39,356

MIGHTILY OVER THE LAST TWO YEARS

1124

00:42:39,423 --> 00:42:40,557

TO THE PROGRESS THAT WE'RE

1125

00:42:40,624 --> 00:42:41,859

MAKING.

1126

00:42:41,926 --> 00:42:43,494

I KNOW A NUMBER OF MEMBERS OF

1127

00:42:43,560 --> 00:42:45,029

THE USER ADVISORY GROUP ARE WITH

1128

00:42:45,095 --> 00:42:45,930

YOU, BEHIND YOU.

1129

00:42:45,996 --> 00:42:47,031

WOULD MEMBERS OF THE USERS

1130

00:42:47,097 --> 00:42:48,232

ADVISORY GROUP GO AHEAD AND

1131

00:42:48,299 --> 00:42:49,934

STAND AND TAKE A BOW, WHEREVER

1132

00:42:50,000 --> 00:42:50,668

YOU ARE SEATED.

1133

00:42:50,734 --> 00:42:52,469

I KNOW THEY'RE ALL WITH US.

1134

00:42:52,536 --> 00:42:54,004

LET'S GIVE THEM ALL A ROUND OF

1135

00:42:54,071 --> 00:42:54,305

APPLAUSE.

1136

00:42:54,371 --> 00:42:57,308

WE'VE GOT SOME GREAT AMERICANS

1137

00:42:57,374 --> 00:42:57,508

HERE.

1138

00:42:57,574 --> 00:42:57,875

THANK YOU ALL.

1139

00:42:57,942 --> 00:43:05,082

[Applause]

1140

00:43:05,149 --> 00:43:06,383

THANK YOU ALL FOR YOUR

1141

00:43:06,450 --> 00:43:08,118

CONTRIBUTIONS AND ADMIRAL ELLIS,

1142

00:43:08,185 --> 00:43:09,920

THANK YOU VERY MUCH.

1143

00:43:09,987 --> 00:43:11,322

VERY GOOD PRESENTATION.

1144

00:43:11,388 --> 00:43:15,059

LET ME TURN NEXT TO Dr. KELVIN

1145

00:43:15,125 --> 00:43:16,660

DROGMIRE WHO IS THE DIRECTOR OF

1146

00:43:16,727 --> 00:43:18,395

THE OFFICE OF SCIENCE AND

1147

00:43:18,462 --> 00:43:19,697

TECHNOLOGY POLICY.

1148

00:43:19,763 --> 00:43:22,299

HE WAS RECENTLY CONFIRMED.

1149

00:43:22,366 --> 00:43:23,734

I HAD THE PRIVILEGE OF SWEARING

1150

00:43:23,801 --> 00:43:25,836

HIM IN AND DOCTOR, YOU HAVE HIT

1151

00:43:25,903 --> 00:43:28,072

THE GROUND RUNNING.

1152

00:43:28,138 --> 00:43:29,974

WE'RE EAGER TO HEAR YOUR

1153

00:43:30,040 --> 00:43:31,842

PERSPECTIVE AND WELCOME TO THE

1154

00:43:31,909 --> 00:43:33,777

NATIONAL SPACE COUNCIL.

1155

00:43:33,844 --> 00:43:35,446

>> THANK YOU SO MUCH,

1156

00:43:35,512 --> 00:43:35,879

Mr. VICE-PRESIDENT.

1157

00:43:35,946 --> 00:43:36,447

I'M REALLY GRATEFUL FOR THE

1158

00:43:36,513 --> 00:43:37,247

OPPORTUNITY TO SERVE THE

1159

00:43:37,314 --> 00:43:38,148

PRESIDENT AND THE AMERICAN

1160

00:43:38,215 --> 00:43:39,350

PEOPLE, THE DIRECTOR OF OFFICE

1161

00:43:39,416 --> 00:43:40,284

SCIENCE AND TECHNOLOGY POLICY AS

1162

00:43:40,351 --> 00:43:41,685

A MEMBER OF THIS WONDERFUL

1163

00:43:41,752 --> 00:43:41,986

COUNCIL.

1164

00:43:42,052 --> 00:43:45,522

AS OSTP DIRECTOR MY GOAL IS TO

1165

00:43:45,589 --> 00:43:48,292

ENSURE AMERICA'S SCIENTIFIC AND

1166

00:43:48,359 --> 00:43:51,462

RESEARCH ENTERPRISES THE NEXT

1167

00:43:51,528 --> 00:43:52,496

GREAT DISCOVERIES AND SECURES

1168

00:43:52,563 --> 00:43:53,430

AMERICAN LEADERSHIP AS WE RETURN

1169

00:43:53,497 --> 00:43:55,699

TO THE MOON AND VENTURE BEYOND.

1170

00:43:55,766 --> 00:43:58,535

FROM AN OSPT PERSPECTIVE, I WANT

1171

00:43:58,602 --> 00:44:00,771

TO TELL YOU LATER TODAY WE ARE

1172

00:44:00,838 --> 00:44:02,473

RELEASING A REPORT ON NATIONAL

1173

00:44:02,539 --> 00:44:03,707

SPACE WEATHER STRATEGY AND

1174

00:44:03,774 --> 00:44:04,808

ACTION PLAN THAT WILL IMPROVE

1175

00:44:04,875 --> 00:44:06,010

OUR COUNTRY'S PREPAREDNESS FOR

1176
00:44:06,076 --> 00:44:07,411
SPACE WEATHER EVENTS LIKE SOLAR

1177
00:44:07,478 --> 00:44:08,712
STORMS AND FLARES THAT CAN DO

1178
00:44:08,779 --> 00:44:10,247
GREAT HARM TO OUR CRITICAL

1179
00:44:10,314 --> 00:44:11,749
INFRASTRUCTURE AND ALSO HAMPER

1180
00:44:11,815 --> 00:44:12,983
OUR ABILITY TO CONDUCT

1181
00:44:13,050 --> 00:44:14,051
OPERATIONS IN SPACE.

1182
00:44:14,118 --> 00:44:15,386
THAT PLAN WILL BE AVAILABLE

1183
00:44:15,452 --> 00:44:17,187
ONLINE AND IN HARD COPY REPORT

1184
00:44:17,254 --> 00:44:18,522
FOR YOU BUT ALSO MOST

1185
00:44:18,589 --> 00:44:20,024
IMPORTANTLY FOR MORE THAN A

1186
00:44:20,090 --> 00:44:24,995
YEAR, OSTP HAS BEEN REVIEWING

1187
00:44:25,062 --> 00:44:25,963
EXISTING NUCLEAR SPACE LAUNCH

1188
00:44:26,030 --> 00:44:27,398

POLICY, CULMINATING THE IN THE

1189

00:44:27,464 --> 00:44:29,400

CREATION OF AN INTERAGENT

1190

00:44:29,466 --> 00:44:32,236

WORKING GROUP CO-CHAIRLED BY OSTP

1191

00:44:32,302 --> 00:44:34,638

AND THE NATIONAL SPACE COUNCIL.

1192

00:44:34,705 --> 00:44:35,272

THESE LAUNCH SYSTEMS ARE

1193

00:44:35,339 --> 00:44:37,074

CRITICAL TO THE SCIENTIFIC AND

1194

00:44:37,141 --> 00:44:37,875

EXPLORATION OBJECTIVES.

1195

00:44:37,941 --> 00:44:41,011

NASA HAS RELIED ON SPACE NUCLEAR

1196

00:44:41,078 --> 00:44:42,312

SYSTEMS OVER MANY DECADE AS WE

1197

00:44:42,379 --> 00:44:46,583

WENT TO THE MOON AND NOW WE'RE

1198

00:44:46,650 --> 00:44:48,886

GOING TO MARS AND OUTER SOLAR

1199

00:44:48,952 --> 00:44:49,186

SYSTEMS.

1200

00:44:49,253 --> 00:44:50,821

AND OTHER POWER SOURCES ARE

1201
00:44:50,888 --> 00:44:51,121
INADEQUATE.

1202
00:44:51,188 --> 00:44:52,389
OUR GOAL FOR THIS WORKING GROUP

1203
00:44:52,456 --> 00:45:00,164
IS TO ENSURE AMERICA CAN SAFELY

1204
00:45:00,230 --> 00:45:00,998
DEVELOP OPERATIONAL CAPABILITIES

1205
00:45:01,065 --> 00:45:02,800
AND ALSO THE POTENTIAL FOR

1206
00:45:02,866 --> 00:45:03,901
INCREASED COMMERCIAL SPACE

1207
00:45:03,967 --> 00:45:04,201
ACTIVITIES.

1208
00:45:04,268 --> 00:45:06,103
THE WORKING GROUP IS NOW

1209
00:45:06,170 --> 00:45:07,104
FINALIZING ITS RECOMMENDATIONS

1210
00:45:07,171 --> 00:45:08,939
FOR ESTABLISHING AN UPDATED

1211
00:45:09,006 --> 00:45:10,574
RISK-INFORMED PROCESS FOR

1212
00:45:10,641 --> 00:45:11,341
LAUNCHING SPACE NUCLEAR SYSTEMS

1213
00:45:11,408 --> 00:45:13,510

THAT ARE FUNDED OR LICENSED BY

1214

00:45:13,577 --> 00:45:15,112

THE FEDERAL GOVERNMENT.

1215

00:45:15,179 --> 00:45:16,613

THIS POLICY UPDATE WILL HELP

1216

00:45:16,680 --> 00:45:18,749

ENSURE THAT RIGOROUS AND

1217

00:45:18,816 --> 00:45:19,950

EFFECTIVE NUCLEAR SAFETY

1218

00:45:20,017 --> 00:45:21,785

ANALYSIS AND REVIEW ARE

1219

00:45:21,852 --> 00:45:23,921

CONDUCTED PRIOR TO ANY LAUNCH OF

1220

00:45:23,987 --> 00:45:25,722

SPACE NUCLEAR SYSTEMS,

1221

00:45:25,789 --> 00:45:27,224

LEVERAGING OUR PAST EXPERIENCE

1222

00:45:27,291 --> 00:45:28,525

WHERE APPROPRIATE AND ALSO THE

1223

00:45:28,592 --> 00:45:29,860

KEY PROVISIONS THAT PROVIDE

1224

00:45:29,927 --> 00:45:31,462

GUIDELINES TO HELP MISSION

1225

00:45:31,528 --> 00:45:32,763

PLANNERS OBTAIN LAUNCH APPROVAL

1226
00:45:32,830 --> 00:45:34,031
AUTHORITIES TO ENSURE LAUNCH

1227
00:45:34,098 --> 00:45:35,299
SAFETY.

1228
00:45:35,365 --> 00:45:36,834
THIS POLICY ALSO WILL DIRECT

1229
00:45:36,900 --> 00:45:40,337
NASA TO ESTABLISH A STANDING

1230
00:45:40,404 --> 00:45:41,171
INTERAGENCY NUCLEAR SAFETY

1231
00:45:41,238 --> 00:45:43,373
REVIEW BOARD CONSISTING OF

1232
00:45:43,440 --> 00:45:44,875
TECHNICALLY QUALIFIED

1233
00:45:44,942 --> 00:45:46,176
REPRESENTATIVES FROM RELEVANT

1234
00:45:46,243 --> 00:45:46,677
AGENCIES.

1235
00:45:46,743 --> 00:45:47,811
VERY IMPORTANTLY, THIS BOARD

1236
00:45:47,878 --> 00:45:49,713
WILL ANALYZE ALL OF THE SAFETY

1237
00:45:49,780 --> 00:45:51,448
AND FEDERAL REGULATORY SPACE

1238
00:45:51,515 --> 00:45:54,451

GOVERNMENT REQUIREMENTS FOR

1239

00:45:54,518 --> 00:45:55,052

SPACE NUCLEAR SYSTEM LAUNCHES

1240

00:45:55,119 --> 00:45:56,954

AND WILL ALSO BE MADE AVAILABLE

1241

00:45:57,020 --> 00:45:58,388

TO EVALUATE ANY POTENTIAL

1242

00:45:58,455 --> 00:46:00,090

COMMERCIAL LAUNCH OF A SPACE

1243

00:46:00,157 --> 00:46:03,227

NUCLEAR SYSTEM THAT COMES UNDER

1244

00:46:03,293 --> 00:46:05,262

REVIEW BY THE DEPARTMENT OF

1245

00:46:05,329 --> 00:46:05,629

TRANSPORTATION.

1246

00:46:05,696 --> 00:46:07,865

THE UPDATED POLICY WILL DIRECT

1247

00:46:07,931 --> 00:46:09,366

THE SECRETARY OF TRANSPORTATION

1248

00:46:09,433 --> 00:46:13,937

TO ISSUE PROPOSED GUIDANCE

1249

00:46:14,004 --> 00:46:14,938

ESTABLISHING DOTs PROCESS FOR

1250

00:46:15,005 --> 00:46:17,875

ANY APPLICATION OF A LICENSE

1251
00:46:17,941 --> 00:46:19,376
INVOLVING A SPACE NUCLEAR

1252
00:46:19,443 --> 00:46:19,610
SYSTEM.

1253
00:46:19,676 --> 00:46:20,677
THAT POLICY UPDATE WILL

1254
00:46:20,744 --> 00:46:22,412
STRENGTHEN EXISTING POLICY FOR

1255
00:46:22,479 --> 00:46:23,313
LAUNCHING SPACE NUCLEAR SYSTEMS

1256
00:46:23,380 --> 00:46:30,454
AND WILL BETTER ENSURE RIGOROUS

1257
00:46:30,521 --> 00:46:32,489
SPACE INFORMED ASSESSMENT AND

1258
00:46:32,556 --> 00:46:33,724
ENSURE AN EFFECTIVE RESPONSE

1259
00:46:33,790 --> 00:46:35,325
SAFETY ANALYSIS AND LAUNCH

1260
00:46:35,392 --> 00:46:36,126
APPROVAL PROCESS THAT IS

1261
00:46:36,193 --> 00:46:38,128
FORWARD-LOOKING AND ASSURES AND

1262
00:46:38,195 --> 00:46:38,862
ALLOWS THE FEDERAL GOVERNMENT

1263
00:46:38,929 --> 00:46:40,564

AND THE PRIVATE SECTOR ENTITIES

1264

00:46:40,631 --> 00:46:41,999

TO EFFECTIVELY USE SPACE NUCLEAR

1265

00:46:42,065 --> 00:46:43,267

SYSTEMS AS WE RETURN TO THE MOON

1266

00:46:43,333 --> 00:46:47,037

AND WE ALSO VENTURE BEYOND.

1267

00:46:47,104 --> 00:46:49,039

ENSURING A RIGOROUS LAUNCH

1268

00:46:49,106 --> 00:46:50,274

SAFETY PROCESS IS ABSOLUTELY

1269

00:46:50,340 --> 00:46:51,842

ESSENTIAL TO USING SPACE NUCLEAR

1270

00:46:51,909 --> 00:46:53,076

SYSTEMS BUT WE MUST NOT STOP

1271

00:46:53,143 --> 00:46:53,477

THERE.

1272

00:46:53,544 --> 00:46:56,113

MOVING FORWARD WE MUST ALSO

1273

00:46:56,180 --> 00:46:58,015

FOCUS ON ENSURING WE SUSTAIN THE

1274

00:46:58,081 --> 00:46:59,116

SKILLS AND DEVELOP THE

1275

00:46:59,183 --> 00:47:00,484

TECHNOLOGIES NEEDED TO PROVIDE

1276
00:47:00,551 --> 00:47:02,986
NUCLEAR SYSTEMS THAT ARE READY

1277
00:47:03,053 --> 00:47:04,988
TO PROPEL AS WELL AS POWER

1278
00:47:05,055 --> 00:47:06,990
AMERICAN FUTURE SPACECRAFT.

1279
00:47:07,057 --> 00:47:08,125
I LOOK FORWARD TO FINALIZING

1280
00:47:08,192 --> 00:47:09,026
THESE RECOMMENDATIONS AND

1281
00:47:09,092 --> 00:47:10,127
BRINGING THEM BEFORE THE COUNCIL

1282
00:47:10,194 --> 00:47:11,995
IN THE COMING WEEKS AND WORKING

1283
00:47:12,062 --> 00:47:13,463
WITH ALL OF YOU TO IMPLEMENT

1284
00:47:13,530 --> 00:47:14,698
THESE AND OTHER POLICY

1285
00:47:14,765 --> 00:47:16,300
INITIATIVES THAT WILL SUSTAIN

1286
00:47:16,366 --> 00:47:17,501
AND STRENGTHEN AMERICAN

1287
00:47:17,568 --> 00:47:18,202
LEADERSHIP IN SPACE.

1288
00:47:18,268 --> 00:47:19,970

THANK YOU, Mr. VICE-PRESIDENT.

1289

00:47:20,037 --> 00:47:20,837
I'M HAPPY TO ANSWER ANY

1290

00:47:20,904 --> 00:47:23,473
QUESTIONS YOU MIGHT HAVE.

1291

00:47:23,540 --> 00:47:25,275
>> THANK YOU, DOCTOR.

1292

00:47:25,342 --> 00:47:25,976
WELCOME ABOARD.

1293

00:47:26,043 --> 00:47:26,410
GREAT REPORT.

1294

00:47:26,476 --> 00:47:28,111
>> THANK YOU.

1295

00:47:28,178 --> 00:47:30,314
>> I THINK THERE'S GREAT

1296

00:47:30,380 --> 00:47:32,115
ENTHUSIASM AMONG THE USER

1297

00:47:32,182 --> 00:47:33,951
ADVISORY GROUP AND ALL OF US ON

1298

00:47:34,017 --> 00:47:35,686
THE NATIONAL SPACE COUNCIL FOR

1299

00:47:35,752 --> 00:47:38,689
NUCLEAR PROPULSION.

1300

00:47:38,755 --> 00:47:39,690
MARSHALL IS GOING TO BE THE

1301
00:47:39,756 --> 00:47:41,091
PLACE FOR REDEVELOPMENT OF THOSE

1302
00:47:41,158 --> 00:47:41,892
NEW SYSTEMS.

1303
00:47:41,959 --> 00:47:43,927
SO THANK YOU FOR LEANING INTO

1304
00:47:43,994 --> 00:47:45,229
THE EFFORT AND WE VERY MUCH LOOK

1305
00:47:45,295 --> 00:47:46,964
FORWARD TO YOUR RECOMMENDATIONS.

1306
00:47:47,030 --> 00:47:48,565
>> THATANK YOU, SIR.

1307
00:47:48,632 --> 00:47:52,903
>> VERY GOOD TO HAVE YOU HIRE H.

1308
00:47:52,970 --> 00:47:55,439
NEXT REPORT ON THE NATIONAL

1309
00:47:55,505 --> 00:47:57,341
SPACE COUNCIL BOARD WILL BE

1310
00:47:57,407 --> 00:48:01,511
REFLECTIVE OF SPACE POLICY

1311
00:48:01,578 --> 00:48:02,813
DIRECTIVE TWO.

1312
00:48:02,879 --> 00:48:05,215
PRESIDENT TRUMP INSTRUCTED TO US

1313
00:48:05,282 --> 00:48:07,050

REFORM EXISTING EXPORT CONTROLS.

1314

00:48:07,117 --> 00:48:08,252

WE NOW LOOK TO THE NATIONAL

1315

00:48:08,318 --> 00:48:09,753

SECURITY COUNCIL FOR A REPORT ON

1316

00:48:09,820 --> 00:48:10,787

THE PROGRESS OF THAT.

1317

00:48:10,854 --> 00:48:13,490

EARL MATTHEWS IS A SENIOR

1318

00:48:13,557 --> 00:48:15,726

DIRECTOR FOR DEFENSE POLICY AND

1319

00:48:15,792 --> 00:48:17,127

STRATEGY AND EARL, YOU'RE

1320

00:48:17,194 --> 00:48:17,427

RECOGNIZED.

1321

00:48:17,494 --> 00:48:18,662

THANKS FOR BEING HERE.

1322

00:48:18,729 --> 00:48:19,963

>> THANK YOU,

1323

00:48:20,030 --> 00:48:20,530

Mr. VICE-PRESIDENT, FOR THE

1324

00:48:20,597 --> 00:48:21,665

OPPORTUNITY TO PROVIDE AN UPDATE

1325

00:48:21,732 --> 00:48:24,701

ON THE ADMINISTRATION'S EXPORT

1326
00:48:24,768 --> 00:48:25,369
CONTROL REFORMS.

1327
00:48:25,435 --> 00:48:26,803
OVER THE PAST TWO YEARS, YOU AND

1328
00:48:26,870 --> 00:48:29,439
THE PRESIDENT HAVE WORKED HARD

1329
00:48:29,506 --> 00:48:32,776
TO STRATEGICALLY REPRIORITIZE

1330
00:48:32,843 --> 00:48:36,213
THE SPACE DOMAIN IN THIS ERA OF

1331
00:48:36,280 --> 00:48:38,949
NEW GREAT POWER COMPETITION.

1332
00:48:39,016 --> 00:48:42,019
IT PRESIDENT TRUMP HAS FIRMLY

1333
00:48:42,085 --> 00:48:43,086
INSTITUTED THE PRINCIPLE THAT

1334
00:48:43,153 --> 00:48:43,954
ECONOMIC SECURITY IS NATIONAL

1335
00:48:44,021 --> 00:48:49,626
SECURITY.

1336
00:48:49,693 --> 00:48:50,927
THE PRESIDENT RECOGNIZES THAT

1337
00:48:50,994 --> 00:48:52,729
THE HEALTH AND COMPETITIVENESS

1338
00:48:52,796 --> 00:48:53,664

OF THE U.S. DEFENSE INDUSTRIAL

1339

00:48:53,730 --> 00:48:55,365

BASE IS A CRITICAL ELEMENT OF

1340

00:48:55,432 --> 00:48:58,101

U.S. NATIONAL POWER.

1341

00:48:58,168 --> 00:48:59,803

THE TRUMP ADMINISTRATION IS

1342

00:48:59,870 --> 00:49:01,438

DOING ITS UTMOST TO ENSURE THAT

1343

00:49:01,505 --> 00:49:02,339

SPACE TECHNOLOGY EXPORT

1344

00:49:02,406 --> 00:49:03,840

REGULATIONS REFLECT THE

1345

00:49:03,907 --> 00:49:08,045

REALITIES OF TODAY'S BURGEONING

1346

00:49:08,111 --> 00:49:11,148

COMMERCIAL SPACE INDUSTRY.

1347

00:49:11,214 --> 00:49:12,783

WE'VE TAKEN HISTORIC STEPS TO

1348

00:49:12,849 --> 00:49:16,353

SIMPLIFY AND UPDATE CONTROL

1349

00:49:16,420 --> 00:49:17,521

REGULATIONS TO ENSURE THAT U.S.

1350

00:49:17,587 --> 00:49:19,723

COMPANIES ARE NOT ONLY ABLE TO

1351
00:49:19,790 --> 00:49:21,358
COMPETE EFFECTIVELY IN A WORLD

1352
00:49:21,425 --> 00:49:22,859
MARKET BUT TO DOMINATE THAT

1353
00:49:22,926 --> 00:49:23,560
MARKET.

1354
00:49:23,627 --> 00:49:25,495
AS YOU KNOW,

1355
00:49:25,562 --> 00:49:26,096
Mr. VICE-PRESIDENT, THE

1356
00:49:26,163 --> 00:49:28,899
PRESIDENT SIGNED A SPACE POLICY

1357
00:49:28,965 --> 00:49:32,636
DIRECTIVE TO SPD2 TITLED

1358
00:49:32,703 --> 00:49:34,871
STREAMLINING REGULATIONS ON

1359
00:49:34,938 --> 00:49:36,773
COMMERCIAL USE OF SPACE IN MAY

1360
00:49:36,840 --> 00:49:40,711
OF 2018.

1361
00:49:40,777 --> 00:49:42,713
SPD2 WAS DESIGNED TO LEVEL THE

1362
00:49:42,779 --> 00:49:43,647
COMMERCIAL SPACE TECHNOLOGY

1363
00:49:43,714 --> 00:49:46,883

MARKETPLACE PLAYING FIELD SO

1364

00:49:46,950 --> 00:49:48,518

THAT U.S. COMPANIES -- FOR U.S.

1365

00:49:48,585 --> 00:49:50,721

COMPANIES WHILE ALSO

1366

00:49:50,787 --> 00:49:52,222

SAFEGUARDING AGAINST

1367

00:49:52,289 --> 00:49:53,924

TECHNOLOGICAL TRANSFERS TO

1368

00:49:53,990 --> 00:49:55,058

ADVERSARIES AND FOREIGN

1369

00:49:55,125 --> 00:49:56,360

COMPETITORS.

1370

00:49:56,426 --> 00:49:59,129

PURSUANT TO SPD2, THE NATIONAL

1371

00:49:59,196 --> 00:50:01,198

SECURITY COUNCIL AND THE

1372

00:50:01,264 --> 00:50:02,799

NATIONAL SPACE COUNCIL

1373

00:50:02,866 --> 00:50:08,905

ACCOMPLISHED THE SPACE-RELATED

1374

00:50:08,972 --> 00:50:09,473

EXPORT CONTROLS INTERAGENCY

1375

00:50:09,539 --> 00:50:12,876

WORKING GROUP THE IWG TO REVIEW

1376
00:50:12,943 --> 00:50:14,711
SPACE-RELATED EXPORT CONTROLS AS

1377
00:50:14,778 --> 00:50:15,712
THEY AFFECT COMMERCIAL SPACE

1378
00:50:15,779 --> 00:50:17,714
ACTIVITY AND NATIONAL SECURITY.

1379
00:50:17,781 --> 00:50:22,152
THE IWG HAS A MEMORANDUM BEFORE

1380
00:50:22,219 --> 00:50:23,487
THE NATIONAL SPACE COUNCIL WITH

1381
00:50:23,553 --> 00:50:25,856
FOUR RECOMMENDATIONS REGARDING

1382
00:50:25,922 --> 00:50:27,491
THE ONGOING WORK OF GOVERNMENT

1383
00:50:27,557 --> 00:50:31,628
AGENCIES TO IMPROVE

1384
00:50:31,695 --> 00:50:32,662
SPACE-RELATED EXPORT CONTROL

1385
00:50:32,729 --> 00:50:34,865
ACTIVITIES BY ENGAGING INDUSTRY.

1386
00:50:34,931 --> 00:50:36,900
I LOOK FORWARD TO THIS

1387
00:50:36,967 --> 00:50:37,968
MEMORANDUM BECOMING PART OF THE

1388
00:50:38,034 --> 00:50:39,903

RECORD TODAY, SIR.

1389

00:50:39,970 --> 00:50:42,038

A DECADE AGO, THE STATE

1390

00:50:42,105 --> 00:50:43,940

DEPARTMENT AVERAGED SOMEWHERE

1391

00:50:44,007 --> 00:50:46,977

BETWEEN 4 AND 7,000 SPACE SYSTEM

1392

00:50:47,043 --> 00:50:49,813

LICENSES EACH YEAR.

1393

00:50:49,880 --> 00:50:53,316

IN 2017, AS PART OF THE EXPORT

1394

00:50:53,383 --> 00:50:57,154

CONTROL REFORM PART TWO, BY THE

1395

00:50:57,220 --> 00:50:58,388

TRUMP ADMINISTRATION, VARIOUS

1396

00:50:58,455 --> 00:51:01,792

TECHNOLOGIES WERE TRANSFERRED

1397

00:51:01,858 --> 00:51:06,196

FROM THE UNITED STATES MISSIONS

1398

00:51:06,263 --> 00:51:07,230

LIST TO THE COMMERCE CONTROL

1399

00:51:07,297 --> 00:51:10,167

LIST WHICH GREATLY BENEFITED THE

1400

00:51:10,233 --> 00:51:11,468

U.S. SPACE INDUSTRY.

1401
00:51:11,535 --> 00:51:12,402
LICENSED APPLICATIONS INVOLVING

1402
00:51:12,469 --> 00:51:15,105
THE TRANSITION OF SATELLITES AND

1403
00:51:15,172 --> 00:51:17,908
SPACE TECHNOLOGY DROPPED BY

1404
00:51:17,974 --> 00:51:21,778
83.7%.

1405
00:51:21,845 --> 00:51:24,614
IN 2018, APPROXIMATELY 300 SPACE

1406
00:51:24,681 --> 00:51:27,384
SYSTEM LICENSES WERE ISSUED BY

1407
00:51:27,451 --> 00:51:29,419
THE STATE DEPARTMENT BECAUSE ECR

1408
00:51:29,486 --> 00:51:32,155
MOVED THIS JURISDICTION OF THE

1409
00:51:32,222 --> 00:51:33,657
BLOCK OF SPACE TECHNOLOGIES TO

1410
00:51:33,723 --> 00:51:34,991
COMMERCE AND THUS NO LONGER

1411
00:51:35,058 --> 00:51:38,094
REQUIRE ARE LICENSES.

1412
00:51:38,161 --> 00:51:39,896
THE DEPARTMENT OF DEFENSE

1413
00:51:39,963 --> 00:51:42,532

CONTINUES TO BE FORWARD-LEANING

1414

00:51:42,599 --> 00:51:44,835

ON EXPORT CONTROLS FOR THE

1415

00:51:44,901 --> 00:51:47,370

NATION SPACE TOURISM INDUSTRY

1416

00:51:47,437 --> 00:51:48,839

DESPITE LIMITED FLIGHT

1417

00:51:48,905 --> 00:51:51,508

OPERATIONS.

1418

00:51:51,575 --> 00:51:52,309

ADJUSTING CONTROLS IN THIS AREA

1419

00:51:52,375 --> 00:51:55,412

IS A HIGH PRIORITY FOR THE

1420

00:51:55,479 --> 00:51:58,648

DEPARTMENT OF DEFENSE AND FOR

1421

00:51:58,715 --> 00:52:00,350

THE INTERAGENCY AND IT IS

1422

00:52:00,417 --> 00:52:01,485

SCHEDULED TO BEGIN THIS SUMMER.

1423

00:52:01,551 --> 00:52:03,653

WE MUST INCREASE OUR ABILITY TO

1424

00:52:03,720 --> 00:52:05,789

INNOVATE WHILE REMAINING

1425

00:52:05,856 --> 00:52:09,292

DOMINANT AND MANUFACTURING

1426
00:52:09,359 --> 00:52:10,827
LEADING-EDGE SPACE TECHNOLOGY.

1427
00:52:10,894 --> 00:52:13,330
WE POSSESS THE LARGEST MOST

1428
00:52:13,396 --> 00:52:15,031
TECHNOLOGICALLY ADVANCED AND

1429
00:52:15,098 --> 00:52:16,433
ACTIVE SPACE ECONOMY IN THE

1430
00:52:16,500 --> 00:52:16,666
WORLD.

1431
00:52:16,733 --> 00:52:19,402
WE MUST ACT SWIFTLY BUT NOT

1432
00:52:19,469 --> 00:52:21,972
HASTILY SO THAT WE PROTECT OUR

1433
00:52:22,038 --> 00:52:23,673
COMPETITIVE ADVANTAGE, OUR

1434
00:52:23,740 --> 00:52:25,108
INTELLECTUAL PROPERTY AND OUR

1435
00:52:25,175 --> 00:52:26,409
NATIONAL SECURITY.

1436
00:52:26,476 --> 00:52:29,412
THESE ISSUES FIGURE PROMINENTLY

1437
00:52:29,479 --> 00:52:31,248
IN THE TRUMP ADMINISTRATION, AS

1438
00:52:31,314 --> 00:52:34,885

YOU WELL KNOW,

1439

00:52:34,951 --> 00:52:35,452

Mr. VICE-PRESIDENT, ARE VERY

1440

00:52:35,519 --> 00:52:36,720

MUCH A PRIORITY FOR THE SENIOR

1441

00:52:36,786 --> 00:52:38,321

LEADERS IN THE WHITE HOUSE AND

1442

00:52:38,388 --> 00:52:39,022

EXECUTIVE BRANCH DEPARTMENT.

1443

00:52:39,089 --> 00:52:41,157

THANK YOU FOR PERMITTING ME TO

1444

00:52:41,224 --> 00:52:42,659

BRING THIS CRITICAL ISSUE TO THE

1445

00:52:42,726 --> 00:52:43,193

LEADERSHIP FORUM.

1446

00:52:43,260 --> 00:52:44,261

>> THANK YOU, EARL, THANK YOU

1447

00:52:44,327 --> 00:52:48,798

FOR THAT REPORT.

1448

00:52:48,865 --> 00:52:50,233

IT IS EXTRAORDINARILY IMPORTANT

1449

00:52:50,300 --> 00:52:52,669

AS YOU SAID WITH OUR AMERICAN

1450

00:52:52,736 --> 00:52:54,971

COMMERCIAL SPACE INDUSTRY THAT

1451
00:52:55,038 --> 00:52:58,174
WE ENSURE THAT WE UPDATE OUR

1452
00:52:58,241 --> 00:52:59,910
EXPORT CONTROLS IN A WAY THAT

1453
00:52:59,976 --> 00:53:02,512
ALLOWS FOR GROWTH IN THE

1454
00:53:02,579 --> 00:53:04,347
INDUSTRY WITHOUT ALLOWING FOR

1455
00:53:04,414 --> 00:53:05,448
TECHNOLOGIES TO FALL INTO THE

1456
00:53:05,515 --> 00:53:07,951
WRONG HANDS.

1457
00:53:08,018 --> 00:53:09,986
SO APPRECIATE YOUR LEANING INTO

1458
00:53:10,053 --> 00:53:12,222
IT AND WE'LL ADD THE MEMORANDUM

1459
00:53:12,289 --> 00:53:14,324
INTO THE FULL RECORD OF TODAY'S

1460
00:53:14,391 --> 00:53:15,659
NATIONAL SECURITY COUNCIL

1461
00:53:15,725 --> 00:53:16,860
BRIEFING.

1462
00:53:16,927 --> 00:53:17,460
GOOD REPORT.

1463
00:53:17,527 --> 00:53:20,363

WE'RE GOING TO CONTINUE TO GO

1464

00:53:20,430 --> 00:53:22,365

THROUGH REPORTS FROM MEMBERS OF

1465

00:53:22,432 --> 00:53:23,199

THE NATIONAL SPACE COUNCIL AND

1466

00:53:23,266 --> 00:53:26,903

THEN WE'LL GO TO OUR PANEL AND

1467

00:53:26,970 --> 00:53:28,438

MAYBE SOME OF THESE VERY SAME

1468

00:53:28,505 --> 00:53:30,707

ISSUES CAN COME UP WITH THE

1469

00:53:30,774 --> 00:53:33,009

PANEL OR AMONG MEMBERS.

1470

00:53:33,076 --> 00:53:37,213

NEXT WE'LL TURN TO THE SECRETARY

1471

00:53:37,280 --> 00:53:40,283

OF THE AIR FORCE WHO I MENTIONED

1472

00:53:40,350 --> 00:53:41,818

EARLIER, HEATHER WILSON.

1473

00:53:41,885 --> 00:53:44,321

I MENTIONED IN MY REMARKS HOW

1474

00:53:44,387 --> 00:53:47,023

GRATEFUL I AM AND I KNOW THE

1475

00:53:47,090 --> 00:53:48,758

PRESIDENT IS, FOR YOUR EFFORTS

1476
00:53:48,825 --> 00:53:50,760
AND THE EFFORTS OF THE AIR FORCE

1477
00:53:50,827 --> 00:53:53,263
IN MOVING OUT ON THE PRESIDENT'S

1478
00:53:53,330 --> 00:53:54,397
VISION FOR THE UNITED STATES

1479
00:53:54,464 --> 00:53:56,399
SPACE FORCE.

1480
00:53:56,466 --> 00:53:57,934
SO THANK YOU AGAIN.

1481
00:53:58,001 --> 00:53:58,969
CONGRATULATIONS ON YOUR EFFORTS

1482
00:53:59,035 --> 00:54:04,107
AND MUCH SUCCESS IN THE FUTURE.

1483
00:54:04,174 --> 00:54:05,909
HEATHER WILSON, OUR SECRETARY OF

1484
00:54:05,976 --> 00:54:07,410
THE UNITED STATES AIR FORCE IS

1485
00:54:07,477 --> 00:54:07,711
RECOGNIZED.

1486
00:54:07,777 --> 00:54:08,311
>> THANK YOU,

1487
00:54:08,378 --> 00:54:08,745
Mr. VICE-PRESIDENT.

1488
00:54:08,812 --> 00:54:09,846

ON THE 1st OF MARCH AT THE

1489

00:54:09,913 --> 00:54:11,448

DIRECTION OF THE PRESIDENT, THE

1490

00:54:11,514 --> 00:54:12,649

DEFENSE DEPARTMENT FORWARDED

1491

00:54:12,716 --> 00:54:14,584

LEGISLATION TO THE CONGRESS TO

1492

00:54:14,651 --> 00:54:16,286

ESTABLISH THE SPACE FORCE AS THE

1493

00:54:16,353 --> 00:54:17,020

SIXTH BRANCH OF THE UNITED

1494

00:54:17,087 --> 00:54:18,588

STATES ARMED FORCES UNDER THE

1495

00:54:18,655 --> 00:54:20,090

UNITED STATES AIR FORCE.

1496

00:54:20,156 --> 00:54:23,827

THE NEW FORCE WOULD HAVE A

1497

00:54:23,893 --> 00:54:25,295

CIVILIAN UNDERSECRETARY OF THE

1498

00:54:25,362 --> 00:54:27,397

AIR FORCE FOR SPACE, A FOUR STAR

1499

00:54:27,464 --> 00:54:28,765

SPACE FORCE CHIEF OF STAFF WHO

1500

00:54:28,832 --> 00:54:30,300

WOULD BE A MEMBER OF THE JOINT

1501
00:54:30,367 --> 00:54:32,335
CHIEF OF STAFF AND A FOUR STAR

1502
00:54:32,402 --> 00:54:34,871
VICE-CHIEF OF STAFF.

1503
00:54:34,938 --> 00:54:36,239
THE AIR FORCE HAS BEEN GIVEN THE

1504
00:54:36,306 --> 00:54:37,173
TASK TO PLAN FOR THE

1505
00:54:37,240 --> 00:54:38,108
ESTABLISHMENT OF THE FORCE WHEN

1506
00:54:38,174 --> 00:54:39,909
THE LEGISLATION IS PASSED BY

1507
00:54:39,976 --> 00:54:41,945
CONGRESS LATER THIS YEAR.

1508
00:54:42,012 --> 00:54:43,747
TO MAKE SURE WE'RE READY, THE

1509
00:54:43,813 --> 00:54:47,250
CHIEF OF STAFF OF THE AIR FORCE,

1510
00:54:47,317 --> 00:54:47,951
GENERAL DAVE GOLDSTEIN AND I

1511
00:54:48,018 --> 00:54:49,486
STOOD UP A SPACE FORCE PLANNING

1512
00:54:49,552 --> 00:54:50,687
GROUP TO DO THE DETAILED

1513
00:54:50,754 --> 00:54:52,222

PLANNING AND TO IDENTIFY THE

1514

00:54:52,288 --> 00:54:54,824

CRITICAL ACTIONS NEEDED TO STAND

1515

00:54:54,891 --> 00:54:56,026

UP THE FORCE.

1516

00:54:56,092 --> 00:55:02,032

TWO-STAR GENERAL OFFICER AND IS

1517

00:55:02,098 --> 00:55:05,201

MADE UP OF EXPERTS FROM THE AIR

1518

00:55:05,268 --> 00:55:07,671

FORCE, ARMY, NAVY, JOINT STAFF,

1519

00:55:07,737 --> 00:55:08,672

OFFICE OF THE SECRETARY OF

1520

00:55:08,738 --> 00:55:10,106

DEFENSE AND THE INTELLIGENT

1521

00:55:10,173 --> 00:55:10,373

COMMUNITY.

1522

00:55:10,440 --> 00:55:11,908

THE TEAM JUST COMPLETED ITS

1523

00:55:11,975 --> 00:55:13,843

INITIAL WORK PLAN AND TURNED

1524

00:55:13,910 --> 00:55:15,979

THAT IN TO ME LAST FRIDAY.

1525

00:55:16,046 --> 00:55:18,948

THE PLAN PROCEEDS IN THREE MAJOR

1526
00:55:19,015 --> 00:55:19,683
PHASES.

1527
00:55:19,749 --> 00:55:21,484
WITHIN 90 DAYS OF ENACTMENT IN

1528
00:55:21,551 --> 00:55:23,753
LAW, WE WOULD SET UP THE INITIAL

1529
00:55:23,820 --> 00:55:25,922
SPACE FORCE STAFF AT THE

1530
00:55:25,989 --> 00:55:27,157
PENTAGON WITH 200 PEOPLE.

1531
00:55:27,223 --> 00:55:28,425
IN THE FIRST THREE YEARS, WE

1532
00:55:28,491 --> 00:55:30,160
WOULD TRANSFER TO THE SPACE

1533
00:55:30,226 --> 00:55:32,595
FORCE THE REQUIRED PEOPLE,

1534
00:55:32,662 --> 00:55:33,663
MISSIONS, AND EQUIPMENT FROM ALL

1535
00:55:33,730 --> 00:55:36,032
OF THE SERVICES AND THE RELEVANT

1536
00:55:36,099 --> 00:55:38,168
AGENCIES TO REACH INITIAL

1537
00:55:38,234 --> 00:55:39,469
OPERATING CAPABILITY.

1538
00:55:39,536 --> 00:55:41,171

FOLLOWING THAT, WITHIN FIVE

1539

00:55:41,237 --> 00:55:43,073

YEARS FROM STAND-UP, WE WILL

1540

00:55:43,139 --> 00:55:44,574

TRANSFER THE REMAINING

1541

00:55:44,641 --> 00:55:45,909

AUTHORITIES NECESSARY TO

1542

00:55:45,975 --> 00:55:47,911

ORGANIZE, TRAIN AND EQUIP A NEW

1543

00:55:47,977 --> 00:55:49,045

SERVICE.

1544

00:55:49,112 --> 00:55:51,748

TO MAXIMIZE OUR ABILITY TO

1545

00:55:51,815 --> 00:55:53,516

DOMINATE IN SPACE IN SUPPORT OF

1546

00:55:53,583 --> 00:55:54,984

THE JOINT FORCE AND IN

1547

00:55:55,051 --> 00:55:57,320

PARTNERSHIP WITH OUR ALLIES.

1548

00:55:57,387 --> 00:55:59,789

DETAILED PLANNING IS NOW

1549

00:55:59,856 --> 00:56:01,891

UNDERWAY SO THAT WE ARE READY TO

1550

00:56:01,958 --> 00:56:02,892

IMPLEMENT AS SOON AS LEGISLATION

1551
00:56:02,959 --> 00:56:05,028
IS PASSED AND SIGNED BY THE

1552
00:56:05,095 --> 00:56:06,429
PRESIDENT OF THE UNITED STATES.

1553
00:56:06,496 --> 00:56:07,931
THANK YOU, SIR.

1554
00:56:07,997 --> 00:56:08,665
>> GREAT.

1555
00:56:08,732 --> 00:56:09,833
I THINK THAT'S WORTH A ROUND OF

1556
00:56:09,899 --> 00:56:10,533
APPLAUSE.

1557
00:56:10,600 --> 00:56:19,743
[Applause]

1558
00:56:19,809 --> 00:56:21,010
GREAT REPORT.

1559
00:56:21,077 --> 00:56:21,945
THANK YOU SO MUCH, SECRETARY

1560
00:56:22,011 --> 00:56:23,880
WILSON, THANK YOU FOR YOUR

1561
00:56:23,947 --> 00:56:25,248
TREMENDOUS AND HISTORIC

1562
00:56:25,315 --> 00:56:26,950
LEADERSHIP IN IMPLEMENTING

1563
00:56:27,016 --> 00:56:28,084

PRESIDENT TRUMP'S VISION FOR THE

1564

00:56:28,151 --> 00:56:29,519

UNITED STATES SPACE FORCE.

1565

00:56:29,586 --> 00:56:31,955

I ALSO WANT TO ACKNOWLEDGE THE

1566

00:56:32,021 --> 00:56:35,191

VICE-CHAIRMAN OF THE JOINT CHIEF

1567

00:56:35,258 --> 00:56:36,993

STAFF, GENERAL PAUL STALLWELL

1568

00:56:37,060 --> 00:56:38,661

THE AIR FORCE AND GENERAL, THANK

1569

00:56:38,728 --> 00:56:40,096

YOU FOR THE WAY YOU HAVE WORKED

1570

00:56:40,163 --> 00:56:42,332

SO CLOSELY WITH THE SECRETARY

1571

00:56:42,398 --> 00:56:44,968

AND WORKING THROUGH THE PROCESS

1572

00:56:45,034 --> 00:56:46,669

TO BRING THIS TO FRUITION.

1573

00:56:46,736 --> 00:56:48,671

WE WANT TO THANK YOU FOR YOUR

1574

00:56:48,738 --> 00:56:49,672

GREAT LEADERSHIP AS WELL.

1575

00:56:49,739 --> 00:56:51,141

IS THERE ANYTHING YOU WOULD LIKE

1576
00:56:51,207 --> 00:56:53,343
TO AMPLIFY FROM THE SECRETARY'S

1577
00:56:53,409 --> 00:56:53,810
REPORT?

1578
00:56:53,877 --> 00:56:54,344
>> NO, SIR.

1579
00:56:54,410 --> 00:56:55,245
I APPRECIATE THE PARTNERSHIP

1580
00:56:55,311 --> 00:56:56,179
THAT'S EXISTED ACROSS THE WHOLE

1581
00:56:56,246 --> 00:56:57,781
OF THE DEPARTMENT IN TRYING TO

1582
00:56:57,847 --> 00:56:58,882
DELIVER THE LEGISLATIVE PROPOSAL

1583
00:56:58,948 --> 00:57:01,184
AS WELL AS THE STRUCTURES WITHIN

1584
00:57:01,251 --> 00:57:04,454
WHICH ALL OF THE FORCES WILL BE

1585
00:57:04,521 --> 00:57:06,856
BROUGHT IN TO THE SPACE FORCE

1586
00:57:06,923 --> 00:57:09,192
AND I PARTICULARLY WANT TO THANK

1587
00:57:09,259 --> 00:57:10,193
SECRETARY WILSON, NOT JUST AS

1588
00:57:10,260 --> 00:57:11,995

THE LEADER OF OUR AIR FORCE BUT

1589

00:57:12,061 --> 00:57:14,297

AS A PARTNER IN THIS ENDEAVOR.

1590

00:57:14,364 --> 00:57:15,965

THANK YOU VERY MUCH, MA'AM.

1591

00:57:16,032 --> 00:57:16,466

>> VERY GOOD.

1592

00:57:16,533 --> 00:57:17,033

WELL SAID.

1593

00:57:17,100 --> 00:57:18,168

THANK YOU, GENTLEMEN.

1594

00:57:18,234 --> 00:57:20,770

THANKS AGAIN FOR YOUR GREAT

1595

00:57:20,837 --> 00:57:21,070

LEADERSHIP.

1596

00:57:21,137 --> 00:57:23,173

NEXT WE'LL TURN TO THE SECRETARY

1597

00:57:23,239 --> 00:57:25,408

OF THE DEPARTMENT OF

1598

00:57:25,475 --> 00:57:27,010

TRANSPORTATION WHO I WANT TO SAY

1599

00:57:27,076 --> 00:57:28,044

TO OTHER MEMBERS OF THE COUNCIL

1600

00:57:28,111 --> 00:57:33,416

AND THOSE LOOKING ON, THE

1601
00:57:33,483 --> 00:57:35,018
SECRETARY HAS BEEN ABSOLUTELY

1602
00:57:35,084 --> 00:57:36,820
INSTRUMENTAL IN HELPING MOVE OUT

1603
00:57:36,886 --> 00:57:42,659
ON A BROAD RANGE OF REFORMS THAT

1604
00:57:42,725 --> 00:57:45,195
HAVE ENLIVENED GREATER

1605
00:57:45,261 --> 00:57:46,296
OPPORTUNITIES IN OUR COMMERCIAL

1606
00:57:46,362 --> 00:57:47,230
SPACE INDUSTRY AND WE'RE JUST

1607
00:57:47,297 --> 00:57:48,331
VERY GRATEFUL FOR YOUR

1608
00:57:48,398 --> 00:57:49,432
LEADERSHIP AND LOOK FORWARD TO

1609
00:57:49,499 --> 00:57:50,900
YOUR REPORT.

1610
00:57:50,967 --> 00:57:51,267
MADAM SECRETARY.

1611
00:57:51,334 --> 00:57:51,968
>> THANK YOU,

1612
00:57:52,035 --> 00:57:53,837
Mr. VICE-PRESIDENT.

1613
00:57:53,903 --> 00:57:55,672

FELLOW COUNCIL MEMBERS, I'M

1614

00:57:55,738 --> 00:57:58,208

PLEASED TO ANNOUNCE THAT THE

1615

00:57:58,274 --> 00:58:02,312

STREAMLINED LAUNCH AND RE-ENTRY

1616

00:58:02,378 --> 00:58:04,848

LICENSING REQUIREMENTS NOTICE OF

1617

00:58:04,914 --> 00:58:07,884

PROPOSED RULE-MAKING IS POSTED

1618

00:58:07,951 --> 00:58:10,987

TODAY AT FAA.GOV.

1619

00:58:11,054 --> 00:58:16,960

[Applause]

1620

00:58:17,026 --> 00:58:18,661

IT WILL ALSO BE PUBLISHED IN THE

1621

00:58:18,728 --> 00:58:20,897

FEDERAL REGISTER AND THERE WILL

1622

00:58:20,964 --> 00:58:23,700

BE A 60-DAY COMMENT PERIOD.

1623

00:58:23,766 --> 00:58:26,336

THIS MPRM IS A MAJOR STEP

1624

00:58:26,402 --> 00:58:26,569

FORWARD.

1625

00:58:26,636 --> 00:58:27,537

IT'S BEEN 12 YEARS SINCE ANY

1626
00:58:27,604 --> 00:58:28,872
LAUNCHED VEHICLE RULES WERE

1627
00:58:28,938 --> 00:58:29,873
UPDATED.

1628
00:58:29,939 --> 00:58:31,774
SO THIS ACTION WILL STRENGTHEN

1629
00:58:31,841 --> 00:58:33,910
OUR COUNTRY'S COMPETITIVENESS IN

1630
00:58:33,977 --> 00:58:36,145
THE COMMERCIAL SPACE SECRETARY.

1631
00:58:36,212 --> 00:58:38,982
THE NEW RULE CONSOLIDATES AND

1632
00:58:39,048 --> 00:58:41,484
REVISES MANY LAUNCH AND RE-ENTRY

1633
00:58:41,551 --> 00:58:43,820
LICENSING REQUIREMENTS INTO A

1634
00:58:43,887 --> 00:58:45,188
SINGLE REGULATION.

1635
00:58:45,255 --> 00:58:48,024
IT ALSO STREAMLINES THE

1636
00:58:48,091 --> 00:58:51,694
LICENSING PROCESS, ENABLES

1637
00:58:51,761 --> 00:58:53,496
FLEXIBLE TIME FRAME, REDEFINES

1638
00:58:53,563 --> 00:58:55,899

WHEN LAUNCH BEGINS AND ALLOWS

1639

00:58:55,965 --> 00:58:58,835

THE SPACE INDUSTRY TO SEEK A

1640

00:58:58,902 --> 00:59:00,203

SINGLE LICENSE TO LAUNCH FROM

1641

00:59:00,270 --> 00:59:04,374

MULTIPLE SITES.

1642

00:59:04,440 --> 00:59:07,310

THE GOAL IS,

1643

00:59:07,377 --> 00:59:07,810

Mr. VICE-PRESIDENT, TO

1644

00:59:07,877 --> 00:59:09,112

SIMPLIFY THE LICENSING PROCESS

1645

00:59:09,178 --> 00:59:13,716

FOR LAUNCH AND RE-ENTRY

1646

00:59:13,783 --> 00:59:15,051

ACTIVITY, ENABLE NOVEL

1647

00:59:15,118 --> 00:59:17,620

OPERATIONS AND REDUCE COSTS.

1648

00:59:17,687 --> 00:59:19,389

THIS EFFORT BENEFITED FROM THE

1649

00:59:19,455 --> 00:59:20,690

EXTRAORDINARY SUPPORT OF

1650

00:59:20,757 --> 00:59:22,025

STAKEHOLDERS FROM BOTH THE

1651
00:59:22,091 --> 00:59:23,726
PUBLIC AND THE PRIVATE SECTORS.

1652
00:59:23,793 --> 00:59:25,728
THIS IS ESPECIALLY TRUE WITH THE

1653
00:59:25,795 --> 00:59:27,230
FAA'S AVIATION RULE-MAKING

1654
00:59:27,297 --> 00:59:29,799
COMMITTEE, COMPRISED OF MORE

1655
00:59:29,866 --> 00:59:31,901
THAN 40 INDIVIDUALS FROM ACROSS

1656
00:59:31,968 --> 00:59:34,537
THE COMMERCIAL SECTOR AND THE

1657
00:59:34,604 --> 00:59:38,074
COMMERCIAL SPACE AND AVIATION

1658
00:59:38,141 --> 00:59:38,374
SECTORS.

1659
00:59:38,441 --> 00:59:39,742
THE COMMITTEE'S FINAL REPORT WAS

1660
00:59:39,809 --> 00:59:41,811
INSTRUMENTAL IN HELPING THE

1661
00:59:41,878 --> 00:59:43,379
DEPARTMENT CRACK THESE PROPOSED

1662
00:59:43,446 --> 00:59:47,350
RULES.

1663
00:59:47,417 --> 00:59:48,117

CRAFT.

1664

00:59:48,184 --> 00:59:49,852

I ALSO WANT TO THANK OUR

1665

00:59:49,919 --> 00:59:50,486

PARTNERS AT THE DEFENSE OF

1666

00:59:50,553 --> 00:59:51,254

SECRETARY AND NASA.

1667

00:59:51,321 --> 00:59:52,922

THEY HAVE GIVEN CONSIDERABLE

1668

00:59:52,989 --> 00:59:56,726

TIME AND EXPERTISE TO THIS

1669

00:59:56,793 --> 00:59:59,028

IMPORTANT EFFORT.

1670

00:59:59,095 --> 01:00:01,064

THIS COLLABORATION IS AND WILL

1671

01:00:01,130 --> 01:00:02,565

CONTINUE TO BE CRITICAL IN

1672

01:00:02,632 --> 01:00:03,132

STREAMLINING THE REQUIREMENT

1673

01:00:03,199 --> 01:00:08,137

THAT APPLIED TO COMMERCIAL SPACE

1674

01:00:08,204 --> 01:00:08,738

OPERATIONS FROM FEDERAL LAUNCH

1675

01:00:08,805 --> 01:00:10,740

SITES AND IN ENDING, I WANT TO

1676
01:00:10,807 --> 01:00:12,041
COMMEND THE PRESIDENT AND YOU

1677
01:00:12,108 --> 01:00:13,876
ESPECIALLY,

1678
01:00:13,943 --> 01:00:16,479
Mr. VICE-PRESIDENT, FOR YOUR

1679
01:00:16,546 --> 01:00:17,380
STEADFAST LEADERSHIP AND

1680
01:00:17,447 --> 01:00:20,116
INSPIRATION TO ALL OF US TO DO

1681
01:00:20,183 --> 01:00:21,317
OUR BEST FOR THE BENEFIT OF

1682
01:00:21,384 --> 01:00:21,951
AMERICA.

1683
01:00:22,018 --> 01:00:24,387
THANK YOU, Mr. VICE-PRESIDENT.

1684
01:00:24,454 --> 01:00:33,830
[Applause]

1685
01:00:33,896 --> 01:00:34,864
>> MADAM SECRETARY, THANK YOU.

1686
01:00:34,931 --> 01:00:38,001
SO SUCH GREAT NEWS ABOUT THE NEW

1687
01:00:38,067 --> 01:00:42,839
RULE STREAMLINING COMMERCIAL

1688
01:00:42,905 --> 01:00:45,141

SPACE ACCESS.

1689

01:00:45,208 --> 01:00:45,875

PARTICULARLY I WOULD ASSUME WITH

1690

01:00:45,942 --> 01:00:46,676

A LOT OF THE COMMERCIAL SPACE

1691

01:00:46,743 --> 01:00:48,144

FOLKS WHO ARE HERE AND LOOKING

1692

01:00:48,211 --> 01:00:51,180

ON, THE IDEA THAT SOMETHING THE

1693

01:00:51,247 --> 01:00:52,382

NATIONAL SPACE COUNCIL DISCUSSED

1694

01:00:52,448 --> 01:00:53,816

AND RECOMMENDED A SINGLE LICENSE

1695

01:00:53,883 --> 01:00:56,719

TO LAUNCH FROM MULTIPLE

1696

01:00:56,786 --> 01:00:57,020

LOCATIONS.

1697

01:00:57,086 --> 01:00:58,821

BUT WHAT I LIKE THE MOST, HAVING

1698

01:00:58,888 --> 01:01:00,056

ARTICULATED THE PRESIDENT'S GOAL

1699

01:01:00,123 --> 01:01:01,591

FOR RETURNING TO THE MOON IN

1700

01:01:01,657 --> 01:01:04,293

FIVE YEARS TODAY IS THAT YOU HIT

1701
01:01:04,360 --> 01:01:07,096
YOUR MA MARK AND POSTED THE RULE

1702
01:01:07,163 --> 01:01:07,330
TODAY.

1703
01:01:07,397 --> 01:01:07,830
WELL DONE.

1704
01:01:07,897 --> 01:01:15,471
HOW ABOUT A ROUND OF APPLAUSE

1705
01:01:15,538 --> 01:01:19,909
FOR SECREFOR THE SECRETARY.

1706
01:01:19,976 --> 01:01:20,610
GREAT JOB.

1707
01:01:20,676 --> 01:01:22,245
VERY INSPIRING.

1708
01:01:22,311 --> 01:01:24,147
GREAT LEADERSHIP ON YOUR PART.

1709
01:01:24,213 --> 01:01:26,883
SECRETARY OF COMMERCE, WILBUR

1710
01:01:26,949 --> 01:01:29,052
ROSS, HAS BEEN TASKED WITH AN

1711
01:01:29,118 --> 01:01:30,620
EQUAL NUMBER OF CHALLENGES TO

1712
01:01:30,686 --> 01:01:31,921
ENCOURAGE SPACE INNOVATION, OUR

1713
01:01:31,988 --> 01:01:33,322

COMMERCIAL INDUSTRY AND I KNOW,

1714

01:01:33,389 --> 01:01:34,757

Mr. SECRETARY, YOU HAVE

1715

01:01:34,824 --> 01:01:36,259

BROUGHT TREMENDOUS ENERGY TO

1716

01:01:36,325 --> 01:01:36,459

THIS.

1717

01:01:36,526 --> 01:01:40,163

THE PRESIDENCY AND I ARE VERY

1718

01:01:40,229 --> 01:01:40,463

GRATEFUL.

1719

01:01:40,530 --> 01:01:41,831

WE LOOK FORWARD TO THE REPORT,

1720

01:01:41,898 --> 01:01:50,406

THE DEPARTMENT'S IMPLEMENTATION

1721

01:01:50,473 --> 01:01:53,242

OF SPACE POLICY.

1722

01:01:53,309 --> 01:01:55,011

>> THANK YOU FOR THE OPPORTUNITY

1723

01:01:55,078 --> 01:01:57,947

TO UPDATE YOU ON THE COMMERCE

1724

01:01:58,014 --> 01:01:59,348

DEPARTMENT'S ACTIVITIES

1725

01:01:59,415 --> 01:02:01,617

FOLLOWING SPACE POLICY DIRECTIVE

1726

01:02:01,684 --> 01:02:04,987

2 AND 3.

1727

01:02:05,054 --> 01:02:07,090

AT THE COMMERCE DEPARTMENT, WE

1728

01:02:07,156 --> 01:02:09,692

SEE A WAVE OF INNOVATION COMING

1729

01:02:09,759 --> 01:02:13,663

IN ALL AREAS OF SPACE COMMERCE,

1730

01:02:13,729 --> 01:02:14,664

FROM REPEAT SENSING TO

1731

01:02:14,730 --> 01:02:18,301

HIGH-SPEED COMMUNICATIONS,

1732

01:02:18,367 --> 01:02:19,936

NAVIGATION, WEATHER FORECASTING,

1733

01:02:20,002 --> 01:02:23,706

SATELLITE SERVICING, HUMAN SPACE

1734

01:02:23,773 --> 01:02:25,641

EXPLORATION, AND TOURISM.

1735

01:02:25,708 --> 01:02:27,877

LATER THIS WILL BE SPACE

1736

01:02:27,944 --> 01:02:30,680

HABITATION AND ASTEROID MINING.

1737

01:02:30,746 --> 01:02:34,117

SO OVER THE PAST TWO MONTHS, WE

1738

01:02:34,183 --> 01:02:36,719

HAVE TWO SUMMITS CONNECTING

1739

01:02:36,786 --> 01:02:39,055

LEADING COMPANIES IN FINANCE,

1740

01:02:39,122 --> 01:02:41,491

BANKING, AND INSURANCE, AND

1741

01:02:41,557 --> 01:02:43,359

LINKING THEM WITH COMMERCIAL

1742

01:02:43,426 --> 01:02:46,529

SPACE ENTERPRISES.

1743

01:02:46,596 --> 01:02:48,731

BELIEVE IT OR NOT, THOSE WERE

1744

01:02:48,798 --> 01:02:51,367

THE FIRST SUCH EVENTS EVER HELD.

1745

01:02:51,434 --> 01:02:54,103

THE SPACE INDUSTRY NEEDS BOTH

1746

01:02:54,170 --> 01:02:56,105

INCREASED FINANCING AND ACCESS

1747

01:02:56,172 --> 01:02:58,708

TO ASSURANCE IN ORDER TO BE

1748

01:02:58,774 --> 01:03:01,344

SUCCESSFUL IN REACHING ITS

1749

01:03:01,410 --> 01:03:02,945

FORECAST TRILLION DOLLARS OF

1750

01:03:03,012 --> 01:03:05,882

REVENUES.

1751
01:03:05,948 --> 01:03:07,683
FOR SPACE POLICY DIRECTIVE 2, WE

1752
01:03:07,750 --> 01:03:11,320
HAVE BEEN EXECUTING REGULATORY

1753
01:03:11,387 --> 01:03:15,858
REFORMS TO SHOW THAT AMERICA IS

1754
01:03:15,925 --> 01:03:18,661
BEST POSITIONED TO SUPPORT

1755
01:03:18,728 --> 01:03:20,363
BUSINESS IN SPACE.

1756
01:03:20,429 --> 01:03:25,935
THE NEW SPD2 REPORT OUTLINES OUR

1757
01:03:26,002 --> 01:03:27,136
SPECTRUM STRATEGY FOR ADVANCED

1758
01:03:27,203 --> 01:03:30,173
SPACE COMMUNICATION ACTIVITIES

1759
01:03:30,239 --> 01:03:32,708
AS PART OF THE DEPLOYMENT OF 5G

1760
01:03:32,775 --> 01:03:36,913
NETWORKS.

1761
01:03:36,979 --> 01:03:43,152
THE SPD2 REPORT WE DEVELOPED

1762
01:03:43,219 --> 01:03:45,388
WITH INDUSTRY INPUT INCLUDES

1763
01:03:45,454 --> 01:03:47,723

RECOMMENDATIONS FOR UPGRADING

1764

01:03:47,790 --> 01:03:51,627

OUR SPACE SPECTRUM LOCATIONS AND

1765

01:03:51,694 --> 01:03:52,428

HARMONIZING INTERNATIONAL

1766

01:03:52,495 --> 01:03:54,764

STANDARDS FOR SPACE ACTIVITIES.

1767

01:03:54,830 --> 01:03:59,202

WE HAVE A COPY FOR EACH COUNCIL

1768

01:03:59,268 --> 01:04:03,439

MEMBER AS IN FRONT OF THE SEATS

1769

01:04:03,506 --> 01:04:05,107

AS THESE ARE VERY HOT TOPICS AND

1770

01:04:05,174 --> 01:04:06,142

WE HAVE COPY NUMBER ONE FOR THE

1771

01:04:06,209 --> 01:04:13,816

VICE-PRESIDENT.

1772

01:04:13,883 --> 01:04:14,717

SEPARATELY, INDUSTRY HAS BEEN

1773

01:04:14,784 --> 01:04:15,818

CRITICAL OF THE DEPARTMENT'S

1774

01:04:15,885 --> 01:04:18,054

REGULATIONS ON COMMERCIAL REMOTE

1775

01:04:18,120 --> 01:04:20,389

SENSING WHICH HAVE NOT KEPT PACE

1776
01:04:20,456 --> 01:04:23,492
WITH RAPID ADVANCES IN

1777
01:04:23,559 --> 01:04:23,826
TECHNOLOGY.

1778
01:04:23,893 --> 01:04:25,928
WITHIN THE INTERAGENCY

1779
01:04:25,995 --> 01:04:27,730
DISCUSSIONS, WE ARE TRYING TO

1780
01:04:27,797 --> 01:04:31,067
RECONCILE A HANDFUL OF ISSUES

1781
01:04:31,133 --> 01:04:34,303
WHERE DLC WOULD LIKE TO PROPOSE

1782
01:04:34,370 --> 01:04:37,940
CHANGE AND DOD PREFERS A MORE

1783
01:04:38,007 --> 01:04:38,708
TRADITIONAL APPROACH.

1784
01:04:38,774 --> 01:04:42,044
I HOPE WE CAN GAIN CONSENSUS ON

1785
01:04:42,111 --> 01:04:44,347
AN APPROACH TO PROPOSE THE

1786
01:04:44,413 --> 01:04:46,682
CHANGE WHILE SEEKING COMMENT ON

1787
01:04:46,749 --> 01:04:49,485
THE STATUS QUO AS WE BELIEVE

1788
01:04:49,552 --> 01:04:50,620

THAT PUBLIC COMMENT IS

1789

01:04:50,686 --> 01:04:52,121
ESSENTIAL.

1790

01:04:52,188 --> 01:04:54,223
YOU HAVE MY COMMITMENT TO

1791

01:04:54,290 --> 01:04:56,792
CONTINUE TO WORK WITH THE

1792

01:04:56,859 --> 01:04:59,695
NATIONAL SPACE COUNCIL ON THE

1793

01:04:59,762 --> 01:05:00,696
FINAL RULE.

1794

01:05:00,763 --> 01:05:04,533
UNDER SPD3, COMMERCE DEPARTMENT

1795

01:05:04,600 --> 01:05:06,769
IS ALSO ASSUMING RESPONSIBILITY

1796

01:05:06,836 --> 01:05:10,373
FOR A SPACE SITUATIONAL

1797

01:05:10,439 --> 01:05:13,309
AWARENESS AND SPACE TRAFFIC

1798

01:05:13,376 --> 01:05:15,111
MANAGEMENT FOR COMMERCIAL

1799

01:05:15,177 --> 01:05:16,712
SATELLITE OPERATORS.

1800

01:05:16,779 --> 01:05:20,483
I RECENTLY SPENT TWO DAYS AT

1801
01:05:20,549 --> 01:05:22,084
VANDENBERGHE AIR FORCE BASE

1802
01:05:22,151 --> 01:05:24,086
MEETING WITH GENERAL JAY

1803
01:05:24,153 --> 01:05:26,088
RAYMOND, COMMANDER OF AIR FORCE

1804
01:05:26,155 --> 01:05:30,960
SPACE COMMAND WITH THE 18th

1805
01:05:31,027 --> 01:05:32,561
SPACE CONTROL SQUADRON AND OUR

1806
01:05:32,628 --> 01:05:33,963
ALLIES AT THE COMBINED SPACE

1807
01:05:34,030 --> 01:05:34,697
OPERATION CENTER.

1808
01:05:34,764 --> 01:05:36,899
WE LOOK FORWARD TO WORKING WITH

1809
01:05:36,966 --> 01:05:39,602
THE GENERAL IN HIS NEW AND EVEN

1810
01:05:39,669 --> 01:05:42,138
MORE IMPORTANT ROLE RUNNING THE

1811
01:05:42,204 --> 01:05:46,676
U.S. SPACE FORCE.

1812
01:05:46,742 --> 01:05:48,210
AT VANDENBERGHE WE DISCUSSED THE

1813
01:05:48,277 --> 01:05:50,680

NEED FOR AUTOMATION AND NEW

1814

01:05:50,746 --> 01:05:53,416

TECHNOLOGIES TO TRACK SPACE

1815

01:05:53,482 --> 01:05:54,717

DEBRIS, ESPECIALLY OBJECTS

1816

01:05:54,784 --> 01:05:56,919

SMALLER THAN TEN CENTIMETERS,

1817

01:05:56,986 --> 01:06:00,089

AND TO BE MORE PRECISE IN

1818

01:06:00,156 --> 01:06:02,391

FORECASTING CONJUNCTIONS.

1819

01:06:02,458 --> 01:06:04,727

OUR OFFICE OF SPACE COMMERCE

1820

01:06:04,794 --> 01:06:09,165

ALSO IS WORKING WITH INDUSTRY TO

1821

01:06:09,231 --> 01:06:12,902

ENHANCE ACCESS TO D OD'S

1822

01:06:12,968 --> 01:06:16,105

AUTHORITATIVE CATALOG OF SPACE

1823

01:06:16,172 --> 01:06:16,706

DEBRIS.

1824

01:06:16,772 --> 01:06:18,941

WE WILL BE THE LIAISON TO

1825

01:06:19,008 --> 01:06:23,446

INDUSTRY AND WILL DEPLOY A

1826
01:06:23,512 --> 01:06:24,513
CLOUD-BASED OPEN ARCHITECTURE,

1827
01:06:24,580 --> 01:06:27,183
DATA REPOSITORY TO ENHANCE

1828
01:06:27,249 --> 01:06:31,821
SAFETY FOR ALL SPACE OPERATORS.

1829
01:06:31,887 --> 01:06:33,456
WE WELCOME THE CONTRIBUTIONS OF

1830
01:06:33,522 --> 01:06:37,460
OUR ALLIES IN THIS ENDEAVOR,

1831
01:06:37,526 --> 01:06:41,297
ESPECIALLY THEIR COMMERCIAL

1832
01:06:41,364 --> 01:06:41,564
ENTITIES.

1833
01:06:41,630 --> 01:06:43,065
AND TOWARD THIS END, WE WILL

1834
01:06:43,132 --> 01:06:45,568
COHOST HOST WITH THE STATE

1835
01:06:45,634 --> 01:06:47,670
DEPARTMENT AN INTERNATIONAL

1836
01:06:47,737 --> 01:06:50,673
SPACE ENTERPRISE SUMMIT WITH OUR

1837
01:06:50,740 --> 01:06:53,309
ALLIES IN WASHINGTON IN LATE

1838
01:06:53,376 --> 01:06:55,811

JUNE TO DISCUSS THESE AND OTHER

1839

01:06:55,878 --> 01:06:58,748

ISSUES RELATED TO THE GROWING

1840

01:06:58,814 --> 01:07:01,984

GLOBAL SPACE ECONOMY.

1841

01:07:02,051 --> 01:07:03,886

COMMERCE CONTINUES TO WORK WELL

1842

01:07:03,953 --> 01:07:06,922

WITH THE U.S. STRATEGIC COMMAND,

1843

01:07:06,989 --> 01:07:10,659

THE AIR FORCE, AND OUR FRIENDS

1844

01:07:10,726 --> 01:07:12,862

THROUGHOUT THE DOD AND THE

1845

01:07:12,928 --> 01:07:15,398

INTERAGENCY AS WE ADVANCE THE

1846

01:07:15,464 --> 01:07:20,836

PRESIDENT'S SSASTM MISSION.

1847

01:07:20,903 --> 01:07:23,439

BY THIS SUMMER, WE'LL DEPLOY

1848

01:07:23,506 --> 01:07:25,474

FULL-TIME COMMERCE STAFF AT

1849

01:07:25,541 --> 01:07:29,078

VANDENBERGHE TO LEARN FROM AND

1850

01:07:29,145 --> 01:07:36,952

WORK ALONGSIDE THE CSPOC,

1851
01:07:37,019 --> 01:07:37,953
FINALLY, LET ME MENTION OUR

1852
01:07:38,020 --> 01:07:39,488
DEDICATION TO CREATING A BUREAU

1853
01:07:39,555 --> 01:07:42,124
OF SPACE COMMERCE WITHIN THE

1854
01:07:42,191 --> 01:07:42,691
DEPARTMENT.

1855
01:07:42,758 --> 01:07:45,661
THAT BUREAU WILL PROVIDE A CLEAR

1856
01:07:45,728 --> 01:07:46,962
SIGNAL OF THIS ADMINISTRATION'S

1857
01:07:47,029 --> 01:07:48,964
COMMITMENT TO HARNESSING THE

1858
01:07:49,031 --> 01:07:52,201
POWER OF THE U.S. COMMERCIAL

1859
01:07:52,268 --> 01:07:53,269
SPACE INDUSTRY.

1860
01:07:53,335 --> 01:07:56,839
IT WILL PROVIDE THIS AND FUTURE

1861
01:07:56,906 --> 01:07:58,340
ADMINISTRATIONS WITH THE TOOLS

1862
01:07:58,407 --> 01:08:02,178
REQUIRED TO ENSURE THE UNITED

1863
01:08:02,244 --> 01:08:05,481

STATES CONTINUES TO LEAD IN THIS

1864

01:08:05,548 --> 01:08:07,917

ESSENTIAL GLOBAL INDUSTRY.

1865

01:08:07,983 --> 01:08:11,420

I LOOK FORWARD TO THE NEXT SPACE

1866

01:08:11,487 --> 01:08:13,656

COUNCIL BEING THE CATALYST FOR

1867

01:08:13,722 --> 01:08:17,359

CREATION OF THE TRILLIAN DOLLAR

1868

01:08:17,426 --> 01:08:19,695

SPACE ECONOMY BASED

1869

01:08:19,762 --> 01:08:21,230

OVERWHELMINGLY ON THE

1870

01:08:21,297 --> 01:08:22,932

CONTRIBUTION OF THE U.S.

1871

01:08:22,998 --> 01:08:24,433

COMMERCIAL SPACE INDUSTRY.

1872

01:08:24,500 --> 01:08:34,577

THANK YOU.

1873

01:08:34,643 --> 01:08:36,378

>> THANK YOU, Mr. SECRETARY,

1874

01:08:36,445 --> 01:08:39,281

THANK YOU FOR THE REPORT.

1875

01:08:39,348 --> 01:08:41,050

WE LOOK FORWARD TO ENTERING IT

1876
01:08:41,116 --> 01:08:42,284
INTO THE RECORD FOR PUBLIC

1877
01:08:42,351 --> 01:08:47,223
REVIEW AND JUST AGAIN, AS I DID

1878
01:08:47,289 --> 01:08:49,225
WITH SECRETARY CHAO, I WANT TO

1879
01:08:49,291 --> 01:08:49,859
THANK YOU.

1880
01:08:49,925 --> 01:08:51,060
THE PRESIDENCY AND COULDN'T BE

1881
01:08:51,126 --> 01:08:52,161
MORE GRATEFUL FOR THE ENERGY YOU

1882
01:08:52,228 --> 01:08:54,463
AND YOUR TEAM HAVE BROUGHT TO

1883
01:08:54,530 --> 01:08:54,964
REFORMING THE COMMERCE

1884
01:08:55,030 --> 01:08:58,434
DEPARTMENT AND ALIGNING EFFORTS

1885
01:08:58,501 --> 01:09:02,738
NOT JUST AS YOU DISCUSSED TODAY

1886
01:09:02,805 --> 01:09:04,874
REGARDING SPECTRUM, RADIO

1887
01:09:04,940 --> 01:09:05,674
FREQUENCY, SPACE TRAFFIC

1888
01:09:05,741 --> 01:09:08,077

MANAGEMENT BUT JUST STREAMLINING

1889

01:09:08,143 --> 01:09:10,412

REGULATIONS THAT WILL ENCOURAGE

1890

01:09:10,479 --> 01:09:14,250

A SPECIAL DEVELOPMENT OF SPACE.

1891

01:09:14,316 --> 01:09:15,117

COMMERCIAL ONE OF THE VERY

1892

01:09:15,184 --> 01:09:17,186

FIRST THINGS THAT WE HEARD FROM

1893

01:09:17,253 --> 01:09:18,988

PANELISTS AND FROM MEMBERS OF

1894

01:09:19,054 --> 01:09:20,589

OUR USER ADVISORY GROUP AND FROM

1895

01:09:20,656 --> 01:09:35,037

OUR PRIVATE INDUSTRY IS THAT K N

1896

01:09:35,104 --> 01:09:36,272

OUR SPACE INTERPRETTURES HAVE

1897

01:09:36,338 --> 01:09:37,573

BEEN BUREAUCRATIC.

1898

01:09:37,640 --> 01:09:38,941

WE WANT TO COMMEND YOU FOR THE

1899

01:09:39,008 --> 01:09:40,142

EFFORTS YOU HAVE TAKEN TO

1900

01:09:40,209 --> 01:09:42,211

INITIATE A BUREAU OF SPACE

1901
01:09:42,278 --> 01:09:43,312
COMMERCE WITHIN THE DEPARTMENT

1902
01:09:43,379 --> 01:09:45,114
OF COMMERCE, STREAMLINING THE

1903
01:09:45,180 --> 01:09:46,615
ABILITY OF OUR INCREDIBLE

1904
01:09:46,682 --> 01:09:47,283
ENTREPRENEURIAL CLASS IN THE

1905
01:09:47,349 --> 01:09:49,251
UNITED STATES TO HAVE ACCESS TO

1906
01:09:49,318 --> 01:09:49,451
SPACE.

1907
01:09:49,518 --> 01:09:52,154
SOMETIMES I THINK IF THE NINA

1908
01:09:52,221 --> 01:09:53,923
PINTA AND THE SANTA MARIA FACED

1909
01:09:53,989 --> 01:09:57,126
THE BUREAUCRATIC BARRIERS THAT

1910
01:09:57,192 --> 01:09:59,428
SOME OF OUR ENTREPRENEURIAL

1911
01:09:59,495 --> 01:10:01,764
EXPLORES FACED TODAY, THEY WOULD

1912
01:10:01,830 --> 01:10:02,965
HAVE NEVER GOTTEN OUT OF THE

1913
01:10:03,032 --> 01:10:03,599

HARBOR IN SPAIN.

1914

01:10:03,666 --> 01:10:05,301

HOW ABOUT ANOTHER ROUND OF

1915

01:10:05,367 --> 01:10:06,902

APPLAUSE FOR SECRETARY ROSS AND

1916

01:10:06,969 --> 01:10:11,774

SECRETARY CHAO REALLY MAKING A

1917

01:10:11,840 --> 01:10:12,107

DIFFERENCE.

1918

01:10:12,174 --> 01:10:14,677

[Applause]

1919

01:10:14,743 --> 01:10:18,581

NEXT I'M GOING TO TURN TO OUR

1920

01:10:18,647 --> 01:10:19,214

NASA ADMINISTRATOR AND THEN I'LL

1921

01:10:19,281 --> 01:10:21,650

ASK FOR ANY GOOD OF THE ORDER

1922

01:10:21,717 --> 01:10:22,785

COMMENTS FROM ANY OTHER MEMBERS

1923

01:10:22,851 --> 01:10:23,485

OF THE NATIONAL SPACE COUNCIL

1924

01:10:23,552 --> 01:10:25,821

WHEN WE CALL OUR PANEL UP BUT

1925

01:10:25,888 --> 01:10:29,491

LET ME JUST THANK YOU, JIM, FOR

1926

01:10:29,558 --> 01:10:30,926

THE GREAT LEADERSHIP, THE

1927

01:10:30,993 --> 01:10:32,728

RENEWED ENERGY, THE MORALE, THE

1928

01:10:32,795 --> 01:10:34,563

SPIRIT THAT YOU HAVE HELPED TO

1929

01:10:34,630 --> 01:10:35,364

INCULCATE IN THAT NASA.

1930

01:10:35,431 --> 01:10:37,766

I SEE IT EVERYWHERE I GO ACROSS

1931

01:10:37,833 --> 01:10:38,767

THE COUNTRY, THE WAY YOU HAVE

1932

01:10:38,834 --> 01:10:41,704

BEEN MOVING OUT ON PRESIDENT

1933

01:10:41,770 --> 01:10:42,638

TRUMP'S VISION INCLUDING THE

1934

01:10:42,705 --> 01:10:46,775

GOAL THAT WAS ARTICULATED TODAY.

1935

01:10:46,842 --> 01:10:48,711

YOU HAVE REALLY BROUGHT A CAN-DO

1936

01:10:48,777 --> 01:10:50,379

SPIRIT TO IT AND WE JUST

1937

01:10:50,446 --> 01:10:51,513

COULDN'T BE MORE GRATEFUL FOR

1938

01:10:51,580 --> 01:10:53,616

YOUR LEADERSHIP.

1939

01:10:53,682 --> 01:10:56,251

I PARTICULARLY LOOK FORWARD TO

1940

01:10:56,318 --> 01:10:58,287

YOUR COMMENTS TODAY AND

1941

01:10:58,354 --> 01:10:59,688

APPRECIATE YOUR RECENT COMMENTS

1942

01:10:59,755 --> 01:11:03,492

ABOUT MOVING OUT ON SPACE POLICY

1943

01:11:03,559 --> 01:11:05,127

DIRECTORTIVE 1, RETURNING

1944

01:11:05,194 --> 01:11:06,929

AMERICAN ASTRONAUTS TO THE MOON,

1945

01:11:06,996 --> 01:11:07,563

DEVELOPING TECHNOLOGIES THERE

1946

01:11:07,630 --> 01:11:08,731

AND ON TO MARS.

1947

01:11:08,797 --> 01:11:14,637

BUT JOIN ME IN THANKING NASA

1948

01:11:14,703 --> 01:11:17,139

ADMINISTRATOR JIM BRIDENSTINE,

1949

01:11:17,206 --> 01:11:18,073

WILL YOU, PLEASE.

1950

01:11:18,140 --> 01:11:20,042

[Applause]

1951

01:11:20,109 --> 01:11:22,611

>> WELL, Mr. VICE-PRESIDENT,

1952

01:11:22,678 --> 01:11:25,247

IS MY MIC WORKING, BY THE WAY?

1953

01:11:25,314 --> 01:11:25,547

EXCELLENT.

1954

01:11:25,614 --> 01:11:25,814

ALL RIGHT.

1955

01:11:25,881 --> 01:11:27,416

I JUST WANT TO SAY, SIR, YOU

1956

01:11:27,483 --> 01:11:31,787

HAVE GIVEN US A CHARGE TODAY,

1957

01:11:31,854 --> 01:11:32,955

AND IT IS RIGHT ON TIME.

1958

01:11:33,022 --> 01:11:36,191

I WANT TO SAY THANK YOU FOR THAT

1959

01:11:36,258 --> 01:11:38,193

VISION AND THE LEADERSHIP.

1960

01:11:38,260 --> 01:11:41,030

OUR AGENCY, NASA, IS GOING TO DO

1961

01:11:41,096 --> 01:11:42,431

EVERYTHING IN ITS POWER TO MEET

1962

01:11:42,498 --> 01:11:44,867

THAT VISION, TO MEET THAT

1963

01:11:44,933 --> 01:11:47,069

DEADLINE, AND YOU HAVE MY FULL

1964

01:11:47,136 --> 01:11:49,238

COMMITMENT TO ACHIEVING THAT.

1965

01:11:49,304 --> 01:12:00,749

[Applause]

1966

01:12:00,816 --> 01:12:03,686

I WANT TO START BY RECOGNIZING

1967

01:12:03,752 --> 01:12:05,721

Dr. KELVIN DROGMIRE, NOW THE

1968

01:12:05,788 --> 01:12:08,624

HEAD OF OSPP WHICH IS A CRITICAL

1969

01:12:08,691 --> 01:12:09,525

FUNCTION FOR OUR GOVERNMENT.

1970

01:12:09,591 --> 01:12:10,793

I HAD THE OPPORTUNITY TO WORK

1971

01:12:10,859 --> 01:12:12,728

WITH HIM WHEN HE WAS AT THE

1972

01:12:12,795 --> 01:12:14,697

UNIVERSITY OF OKLAHOMA, A GREAT

1973

01:12:14,763 --> 01:12:16,732

INSTITUTION IN THE HEARTLAND OF

1974

01:12:16,799 --> 01:12:18,500

AMERICA.

1975

01:12:18,567 --> 01:12:20,235

I HAPPEN TO BE FROM OKLAHOMA.

1976

01:12:20,302 --> 01:12:21,170

WHEN I WAS IN THE HOUSE OF

1977

01:12:21,236 --> 01:12:22,037

REPRESENTATIVES, WE WORKED ON A

1978

01:12:22,104 --> 01:12:23,305

LOT OF WEATHER ISSUES AND I

1979

01:12:23,372 --> 01:12:25,374

LIKED WHAT HE TALKED ABOUT

1980

01:12:25,441 --> 01:12:26,675

TODAY, HE TALKED ABOUT SPACE

1981

01:12:26,742 --> 01:12:27,710

WEATHER WHICH IS A LITTLE

1982

01:12:27,776 --> 01:12:28,410

DIFFERENT THAN TORRENTIAL

1983

01:12:28,477 --> 01:12:33,148

WEATHER BUT I DO BELIEVE IN

1984

01:12:33,215 --> 01:12:34,817

ALABAMA GIVEN SOME OF THE RECENT

1985

01:12:34,883 --> 01:12:37,119

ACTIVITIES WITH TORNADOES, WE

1986

01:12:37,186 --> 01:12:38,487

CAN TAKE ADVANTAGE OF HIS

1987

01:12:38,554 --> 01:12:40,155

EXPERTISE AND A LOT OF OTHERS IN

1988

01:12:40,222 --> 01:12:42,624

THIS GOVERNMENT TO MOVE US TO A

1989

01:12:42,691 --> 01:12:45,127

DAY WHERE WE CAN GET MORE LEAD

1990

01:12:45,194 --> 01:12:45,961

TIME ON TORNADOES.

1991

01:12:46,028 --> 01:12:47,463

RIGHT NOW IN OKLAHOMA, IT'S

1992

01:12:47,529 --> 01:12:48,964

ABOUT 13 MINUTES.

1993

01:12:49,031 --> 01:12:50,332

I THINK WE CAN MOVE TO US A DAY

1994

01:12:50,399 --> 01:12:51,767

IN THIS COUNTRY WHERE WE CAN GET

1995

01:12:51,834 --> 01:12:54,470

A LONGER AND MAYBE EVEN MOVE

1996

01:12:54,536 --> 01:12:57,072

TO US A DAY WHERE WE HAVE ZERO

1997

01:12:57,139 --> 01:12:57,940

DEATHS FROM TORNADOES WHICH HAS

1998

01:12:58,006 --> 01:12:59,908

BEEN A BIG DEAL FOR ME AS A

1999

01:12:59,975 --> 01:13:01,076

FORMER REPRESENTATIVE FROM

2000

01:13:01,143 --> 01:13:02,344

OKLAHOMA WHERE I HAVE

2001
01:13:02,411 --> 01:13:04,146
CONSTITUENTS EVERY YEAR THAT

2002
01:13:04,213 --> 01:13:05,047
DIED IN TORNADOES.

2003
01:13:05,114 --> 01:13:06,648
NOW BACK TO NASA.

2004
01:13:06,715 --> 01:13:08,083
JUST WANTED TO PUT THAT ON THE

2005
01:13:08,150 --> 01:13:09,118
TABLE.

2006
01:13:09,184 --> 01:13:10,319
Mr. VICE-PRESIDENT, WE'VE HAD

2007
01:13:10,385 --> 01:13:12,755
AMAZING SUCCESSES SINCE THE LAST

2008
01:13:12,821 --> 01:13:13,956
NATIONAL SPACE COUNCIL.

2009
01:13:14,022 --> 01:13:15,758
I REMEMBER LIKE YESTERDAY

2010
01:13:15,824 --> 01:13:17,392
RECEIVING YOUR PHONE CALL AFTER

2011
01:13:17,459 --> 01:13:22,231
WE LANDED ENSIGHT ON MARS AND

2012
01:13:22,297 --> 01:13:24,032
THE MANAGEMENT OF EXCITEMENT AND

2013
01:13:24,099 --> 01:13:25,968

QUITE FRANKLY JUBILATION FOR

2014

01:13:26,034 --> 01:13:28,470

EVERY PIECE OF DATA THAT CAME

2015

01:13:28,537 --> 01:13:31,106

BACK FROM THE MOMENT THAT

2016

01:13:31,173 --> 01:13:33,242

SPACECRAFT LANDED ON MARS, WHAT

2017

01:13:33,308 --> 01:13:34,910

AN AMAZING ACCOMPLISHMENT.

2018

01:13:34,977 --> 01:13:37,679

IT WAS ON THE COVER OF 240

2019

01:13:37,746 --> 01:13:38,180

PARTNERSHIPS WORLDWIDE.

2020

01:13:38,247 --> 01:13:39,348

TALK ABOUT TRANSFORMING THE

2021

01:13:39,414 --> 01:13:40,482

IMPRESSION OF PEOPLE ALL OVER

2022

01:13:40,549 --> 01:13:42,117

THE WORLD ABOUT WHAT AMERICA CAN

2023

01:13:42,184 --> 01:13:43,819

ACCOMPLISH.

2024

01:13:43,886 --> 01:13:45,854

THAT INSIGHT LANDING WAS THE

2025

01:13:45,921 --> 01:13:47,089

EIGHTH TIME IN HUMAN HISTORY

2026

01:13:47,156 --> 01:13:50,659

WE'VE LANDED ON MARS SOFTLY

2027

01:13:50,726 --> 01:13:52,094

SUCCESSFULLY AND EVERY SINGLE

2028

01:13:52,161 --> 01:13:52,995

ONE OF THOSE TIMES IT'S BEEN

2029

01:13:53,061 --> 01:13:54,263

DONE BY THE UNITED STATES OF

2030

01:13:54,329 --> 01:13:55,130

AMERICA.

2031

01:13:55,197 --> 01:14:00,369

[Applause]

2032

01:14:00,435 --> 01:14:03,071

AND WHEN YOU -- I KNOW YOU

2033

01:14:03,138 --> 01:14:04,206

FOLLOW THESE THINGS VERY

2034

01:14:04,273 --> 01:14:05,240

CLOSELY, Mr. VICE-PRESIDENT

2035

01:14:05,307 --> 01:14:06,008

BECAUSE YOU CALL ME WHEN THEY

2036

01:14:06,074 --> 01:14:07,576

HAPPEN AND WHEN YOU CALLED ME ON

2037

01:14:07,643 --> 01:14:09,645

THAT DAY, FOR ME TO BE ABLE TO

2038

01:14:09,711 --> 01:14:12,047

SAY LISTEN, TEAM HERE, AT THE

2039

01:14:12,114 --> 01:14:13,782

JET PROPULSION LAB, I'VE GOT TO

2040

01:14:13,849 --> 01:14:18,921

TAKE A CALLCALL CALL FROM THE

2041

01:14:18,987 --> 01:14:20,322

VICE-PRESIDENT, THAT WAS A SHOT

2042

01:14:20,389 --> 01:14:21,757

IN EVERYONE AT THE JET

2043

01:14:21,824 --> 01:14:22,257

PROPULSION LABORATORY.

2044

01:14:22,324 --> 01:14:24,760

THANK YOU FOR YOUR STEADFAST

2045

01:14:24,827 --> 01:14:25,828

DEDICATION TO WHAT WE'RE TRYING

2046

01:14:25,894 --> 01:14:26,395

TO ACHIEVE.

2047

01:14:26,461 --> 01:14:28,397

FROM THERE OVER THE HOLIDAY WES

2048

01:14:28,463 --> 01:14:33,602

ENTERED ORBIT AROUND BENU, AN

2049

01:14:33,669 --> 01:14:36,271

ASTEROID IN DEEP SPEIGHTS WITH

2050

01:14:36,338 --> 01:14:39,308

OSIRIS REX.

2051
01:14:39,374 --> 01:14:43,145
YOU SAW OSIRIS REX WITH YOUR

2052
01:14:43,212 --> 01:14:45,080
OWN EYES BEFORE IT LAUNCHED.

2053
01:14:45,147 --> 01:14:47,182
WE'RE GOING TO BRING BACK A

2054
01:14:47,249 --> 01:14:48,617
SAMPLE OF THIS ASTEROID SO WE

2055
01:14:48,684 --> 01:14:50,586
CAN STUDY AND IT SHARE WITH OUR

2056
01:14:50,652 --> 01:14:51,386
INTERNATIONAL PARTNERS

2057
01:14:51,453 --> 01:14:52,487
DEMONSTRATING AMERICAN

2058
01:14:52,554 --> 01:14:54,623
LEADERSHIP IN DEEP SPACE.

2059
01:14:54,690 --> 01:14:55,791
OVER THE SAME HOLIDAY BREAK, IT

2060
01:14:55,858 --> 01:14:56,758
WAS A LITTLE BIT BUSY FOR ME AT

2061
01:14:56,825 --> 01:14:59,628
THAT TIME BUT WE FLEW NEW

2062
01:14:59,695 --> 01:15:07,870
HORIZONS PAST ULTIMA THULE,

2063
01:15:07,936 --> 01:15:08,637

4 BILLION MILES FROM EARTH IN

2064

01:15:08,704 --> 01:15:09,838

THE KIPPUR BELT.

2065

01:15:09,905 --> 01:15:13,242

THE FURTHEST OBJECT EVER

2066

01:15:13,308 --> 01:15:16,845

EXPLORED IN DEEP SPACE AND THE

2067

01:15:16,912 --> 01:15:18,313

SCIENCE COME BAG IS ASTONISHING.

2068

01:15:18,380 --> 01:15:19,481

THE NEW HORIZON SPACECRAFT THAT

2069

01:15:19,548 --> 01:15:22,417

DID THAT IS THE SAME SPACECRAFT

2070

01:15:22,484 --> 01:15:23,619

THAT FLEW BY PLUTO IN 2014 AND

2071

01:15:23,685 --> 01:15:24,786

GAVE US THE BEAUTIFUL IMAGES FOR

2072

01:15:24,853 --> 01:15:27,289

THE FIRST TIME IN HISTORY OF

2073

01:15:27,356 --> 01:15:29,157

PLUTO AND OF COURSE SO A LOT OF

2074

01:15:29,224 --> 01:15:30,459

VERY EXCITING THINGS HAPPENING

2075

01:15:30,525 --> 01:15:32,394

IN SPACE EXPLORATION.

2076
01:15:32,461 --> 01:15:33,996
OF COURSE I KNOW YOU WATCHED

2077
01:15:34,062 --> 01:15:35,197
WITH GREAT INTEREST AND CAME

2078
01:15:35,264 --> 01:15:36,398
OVER THE NASA HEADQUARTERS WHEN

2079
01:15:36,465 --> 01:15:39,201
THE CREW DRAGON DOCKED TO THE

2080
01:15:39,268 --> 01:15:40,936
INTERNATIONAL SPACE STATION,

2081
01:15:41,003 --> 01:15:42,971
ANOTHER AMAZING MOMENT, A FIRST

2082
01:15:43,038 --> 01:15:43,939
IN THE HISTORY.

2083
01:15:44,006 --> 01:15:50,112
[Applause]

2084
01:15:50,178 --> 01:15:52,681
A FIRST IN THE HISTORY OF THE

2085
01:15:52,748 --> 01:15:53,982
UNITED STATES WHERE WE WANT TO

2086
01:15:54,049 --> 01:15:56,351
BE A CUSTOMER IN LOW-EARTH

2087
01:15:56,418 --> 01:15:56,652
ORBIT.

2088
01:15:56,718 --> 01:15:58,387

WE WANT TO BE ONE CUSTOMER OF

2089

01:15:58,453 --> 01:15:58,654

MANY.

2090

01:15:58,720 --> 01:16:00,088

WE WANT NUMEROUS PROVIDERS THAT

2091

01:16:00,155 --> 01:16:01,290

ARE COMPETING ON COST AND

2092

01:16:01,356 --> 01:16:02,324

INNOVATION TO DRIVE DOWN COSTS

2093

01:16:02,391 --> 01:16:04,626

TO GIVE US MORE CAPABILITY AND

2094

01:16:04,693 --> 01:16:06,261

IMPROVE SAFETY AND WE BELIEVE

2095

01:16:06,328 --> 01:16:08,897

THAT THIS IS A CRITICAL

2096

01:16:08,964 --> 01:16:09,197

CAPABILITY.

2097

01:16:09,264 --> 01:16:11,233

I WAS THERE LAST YEAR AT THE

2098

01:16:11,300 --> 01:16:12,935

SPACE SYMPOSIUM WHEN YOU SAID

2099

01:16:13,001 --> 01:16:15,671

VERY CLEARLY THAT WE WANT TO BE

2100

01:16:15,737 --> 01:16:18,674

A TENANT IN LOW-EARTH ORBIT.

2101
01:16:18,740 --> 01:16:19,708
WE DON'T WANT TO BE THE

2102
01:16:19,775 --> 01:16:20,108
LANDLORD.

2103
01:16:20,175 --> 01:16:21,777
WITH COMMERCIAL RESUPPLY AND NOW

2104
01:16:21,843 --> 01:16:25,380
ON THE HORIZON COMMERCIAL CREW

2105
01:16:25,447 --> 01:16:27,416
AND EVENTUALLY COMMERCIALIZATION

2106
01:16:27,482 --> 01:16:30,352
OF LOW-EARTH ORBIT WITH

2107
01:16:30,419 --> 01:16:31,320
HABITATION, COMMERCIAL HABITAT,

2108
01:16:31,386 --> 01:16:33,889
WE ARE ON THE PRECIPICE OF

2109
01:16:33,956 --> 01:16:40,929
COMMERCIALIZING LOW-EFFOEARTH OT

2110
01:16:40,996 --> 01:16:41,730
WITH A SPECIFIC GOAL.

2111
01:16:41,797 --> 01:16:42,898
WE WANT TO GO TO THE SURFACE OF

2112
01:16:42,965 --> 01:16:44,466
THE MOON AND WE WANT TO GO

2113
01:16:44,533 --> 01:16:44,700

QUICKLY.

2114

01:16:44,766 --> 01:16:45,500

THAT'S THE OBJECTIVE.

2115

01:16:45,567 --> 01:16:47,102

IF WE CAN DRIVE DOWN COSTS AND

2116

01:16:47,169 --> 01:16:48,937

INCREASE ACCESS, COMMERCIALIZE

2117

01:16:49,004 --> 01:16:50,605

LOW-EARTH ORBIT.

2118

01:16:50,672 --> 01:16:54,843

I KNOW SECRETARY CHAO AND SHORT

2119

01:16:54,910 --> 01:17:02,117

BRSECTORROSS ARE GIVING US ALL E

2120

01:17:02,184 --> 01:17:04,720

COMMERCIALIZATION AND NOW WITH

2121

01:17:04,786 --> 01:17:09,791

WITH YOUR CHARGE TODAY SIR,

2122

01:17:09,858 --> 01:17:09,992

2024.

2123

01:17:10,058 --> 01:17:11,126

WE'VE GOT IT LOUD AND CLEAR.

2124

01:17:11,193 --> 01:17:12,027

THE CHALLENGES YOU UNDERLINED

2125

01:17:12,094 --> 01:17:12,928

TODAY AND YOU TALKED ABOUT IN

2126
01:17:12,995 --> 01:17:15,163
YOUR OFFICE WITH SLS AND MAKING

2127
01:17:15,230 --> 01:17:16,732
SURE WE CAN ACCELERATE THE

2128
01:17:16,798 --> 01:17:18,600
AGENDA, WE UNDERSTAND THAT.

2129
01:17:18,667 --> 01:17:26,608
WE GOT IT LOUD AND CLEAR.

2130
01:17:26,675 --> 01:17:35,250
I DID OPEN UP THE TO LAUNCH THE

2131
01:17:35,317 --> 01:17:36,785
ORION CAPSULE UNDER THE MOON.

2132
01:17:36,852 --> 01:17:37,986
WHAT I CAN TELL YOU IS THERE AN

2133
01:17:38,053 --> 01:17:40,455
OPPORTUNITY THERE IN THE FUTURE.

2134
01:17:40,522 --> 01:17:42,824
I WILL ALSO TELL YOU IF WE

2135
01:17:42,891 --> 01:17:44,760
WANTED TO ACHIEVE 2024, WE HAVE

2136
01:17:44,826 --> 01:17:46,261
TO HAVE SLS.

2137
01:17:46,328 --> 01:17:48,063
WE HAVE TO ACCELERATE ITS AGENDA

2138
01:17:48,130 --> 01:17:50,665

AND WHEN WE TALK ABOUT BEING

2139

01:17:50,732 --> 01:17:53,702

ABLE TO COMANIFEST PAYLOADS, WE

2140

01:17:53,769 --> 01:17:56,238

TALK ABOUT PUTTING HUMANS ON A

2141

01:17:56,304 --> 01:17:59,641

SPACECRAFT WITH HABITATION

2142

01:17:59,708 --> 01:18:00,208

MODULES AT THE SAME TIME AND

2143

01:18:00,275 --> 01:18:01,343

DELIVERING TO THE MOON ALL AT

2144

01:18:01,410 --> 01:18:03,078

ONCE, WE'RE GOING TO NEED AN

2145

01:18:03,145 --> 01:18:03,879

EXPLORATION UPPER STAGE AND

2146

01:18:03,945 --> 01:18:05,280

WE'RE GOING TO NEED THAT

2147

01:18:05,347 --> 01:18:07,382

PROBABLY EARLY BY EM3, THE THIRD

2148

01:18:07,449 --> 01:18:08,817

LAUNCH OF THE SPACE LAUNCH

2149

01:18:08,884 --> 01:18:09,117

SYSTEM.

2150

01:18:09,184 --> 01:18:11,653

SO THERE'S A LOT TO ACHIEVE.

2151
01:18:11,720 --> 01:18:13,455
WE'RE WORKING RIGHT NOW AT

2152
01:18:13,522 --> 01:18:16,058
MAKING SURE THAT EVERY MOMENT OF

2153
01:18:16,124 --> 01:18:17,459
TIME THAT WE ARE USING TO

2154
01:18:17,526 --> 01:18:21,596
DEVELOP SLS AND THE ORION CREW

2155
01:18:21,663 --> 01:18:22,931
CAPSULE, WE ARE ONLY DOING WHAT

2156
01:18:22,998 --> 01:18:23,832
IS ABSOLUTELY NECESSARY TO GET

2157
01:18:23,899 --> 01:18:26,234
TO THAT FIRST LAUNCH.

2158
01:18:26,301 --> 01:18:29,137
AND NOT ADDING TO THE MIX

2159
01:18:29,204 --> 01:18:33,875
WHETHER IT'S ADDITIONAL TESTING

2160
01:18:33,942 --> 01:18:36,044
OR HAVING SERIAL ASSEMBLY RATHER

2161
01:18:36,111 --> 01:18:36,878
THAN PARALLEL ASSEMBLY, WE ARE

2162
01:18:36,945 --> 01:18:38,613
TRYING TO ELIMINATE ANY EXTRA

2163
01:18:38,680 --> 01:18:40,215

TIME IN ORDERED TO GET TO THAT

2164

01:18:40,282 --> 01:18:41,016

FIRST LAUNCH AS SOON AS POSSIBLE

2165

01:18:41,083 --> 01:18:42,451

AND Mr. VICE-PRESIDENT, I CAN

2166

01:18:42,517 --> 01:18:43,952

TELL YOU, I AM CONFIDENT WE CAN

2167

01:18:44,019 --> 01:18:46,188

GET TO THAT FIRST LAUNCH IN

2168

01:18:46,254 --> 01:18:48,390

2020, FOR SLS.

2169

01:18:48,457 --> 01:18:51,326

AND ACTUALLY FLY THE CREW

2170

01:18:51,393 --> 01:18:52,527

CAPSULE AROUND THE MOON.

2171

01:18:52,594 --> 01:18:57,833

[Applause]

2172

01:18:57,899 --> 01:18:59,668

I HEARD EARLIER ADMIRAL ELLIS

2173

01:18:59,734 --> 01:19:00,969

MENTIONED THAT THERE WAS SOME

2174

01:19:01,036 --> 01:19:05,507

CONCERN ABOUT THE GATEWAY.

2175

01:19:05,574 --> 01:19:06,875

I'VE HEARD THOSE SAME CONCERNS.

2176
01:19:06,942 --> 01:19:08,210
I THINK IT'S IMPORTANT TO NOTE

2177
01:19:08,276 --> 01:19:09,111
WHAT THE GATEWAY IS.

2178
01:19:09,177 --> 01:19:12,147
I HEARD YOU SAY, SIR, YOU WANT

2179
01:19:12,214 --> 01:19:14,249
TO GET TO THE SOUTH POLE OF THE

2180
01:19:14,316 --> 01:19:17,285
MOON AND THAT'S GOING TO BE WITH

2181
01:19:17,352 --> 01:19:20,489
OUR FIRST ASTRONAUTS DOES.

2182
01:19:20,555 --> 01:19:22,057
WHAT THE GATEWAY DOES IS AN EI

2183
01:19:22,124 --> 01:19:27,028
BELIEVE US A TO GET TO THE FIRS.

2184
01:19:27,095 --> 01:19:31,266
WE WANT TO HAVE A REUSABLE

2185
01:19:31,333 --> 01:19:32,701
COMMAND MODULE WITH PROPULSION

2186
01:19:32,767 --> 01:19:34,336
THAT CAN GET TO MORE

2187
01:19:34,402 --> 01:19:34,936
PARTICIPATION OF THE MOON THAT

2188
01:19:35,003 --> 01:19:37,005

EVER EVER BEFORE.

2189

01:19:37,072 --> 01:19:40,142
FROM 1969 UP TO 2008, MOST

2190

01:19:40,208 --> 01:19:42,844
PEOPLE BELIEVED THE MOON WAS

2191

01:19:42,911 --> 01:19:44,045
BONE DRY.

2192

01:19:44,112 --> 01:19:45,981
2008 AND 2009, NASA MADE

2193

01:19:46,047 --> 01:19:48,984
IMPORTANT DISCOVERIES, HUNDREDS OF

2194

01:19:49,050 --> 01:19:55,624
MILLIONS OF TONS OF WATER ICE ON

2195

01:19:55,690 --> 01:19:57,159
THE POLES OF THE MOON.

2196

01:19:57,225 --> 01:19:59,928
WE WANT TO BE ABLE TO GET TO

2197

01:19:59,995 --> 01:20:00,462
THAT REGION.

2198

01:20:00,529 --> 01:20:03,365
WE NEED A COMMAND MODULE THAT

2199

01:20:03,431 --> 01:20:05,500
CAN MANEUVER AROUND THE MOON.

2200

01:20:05,567 --> 01:20:10,138
WHAT THAT'S WHAT THE GATEWAY IS L

2201
01:20:10,205 --> 01:20:10,639
ABOUT.

2202
01:20:10,705 --> 01:20:13,341
WE NEED AN EARLY COMMAND MODULE

2203
01:20:13,408 --> 01:20:14,776
FOCUSEDXCLUSIVELY ON GETTING

2204
01:20:14,843 --> 01:20:16,311
HUMANS TO THE SURFACE OF THE

2205
01:20:16,378 --> 01:20:16,611
MOON.

2206
01:20:16,678 --> 01:20:17,812
THAT'S WHAT IT OUGHT TO BE ABOUT

2207
01:20:17,879 --> 01:20:19,414
AND THAT IS WHAT IT IS ABOUT

2208
01:20:19,481 --> 01:20:20,448
GIVEN YOUR DIRECTION TODAY,

2209
01:20:20,515 --> 01:20:23,752
WE'LL BE USING THE GATEWAY AS A

2210
01:20:23,818 --> 01:20:24,986
REASONABLE COMMAND MODULE TO GET

2211
01:20:25,053 --> 01:20:27,589
BOOTS ON THE MOON AS SOON AS

2212
01:20:27,656 --> 01:20:27,856
POSSIBLE.

2213
01:20:27,923 --> 01:20:31,626

SO YOU CAN COUNT ON THAT IN THE

2214

01:20:31,693 --> 01:20:35,730

COMING YEARS, I SHOULD SAY.

2215

01:20:35,797 --> 01:20:37,465

SO THERE'S A LOT HAPPENING,

2216

01:20:37,532 --> 01:20:39,434

THERE'S A LOT OF EXCITEMENT.

2217

01:20:39,501 --> 01:20:40,936

SIR, YOUR VISION, ONE THING I

2218

01:20:41,002 --> 01:20:42,270

HEARD YOU SAY TODAY THAT I

2219

01:20:42,337 --> 01:20:44,973

THOUGHT WAS JUST PHENOMENAL, YOU

2220

01:20:45,040 --> 01:20:46,708

SAID FAIL SMARTER.

2221

01:20:46,775 --> 01:20:48,109

THOSE WORDS ARE IMPORTANT FOR

2222

01:20:48,176 --> 01:20:50,111

NASA TO UNDERSTAND.

2223

01:20:50,178 --> 01:20:55,650

ONE OF MY FIRST INITIATIVES AS

2224

01:20:55,717 --> 01:20:57,185

THE ADMINISTRATOR WAS THE

2225

01:20:57,252 --> 01:20:57,686

COMMERCIAL LUNAR PAYLOAD

2226

01:20:57,752 --> 01:20:58,853

SERVICES WHICH SAYS WE'RE GOING

2227

01:20:58,920 --> 01:21:01,289

TO DELIVER SMALL PAYLOADS TO THE

2228

01:21:01,356 --> 01:21:03,792

SURFACE OF THE MOON BY JUST

2229

01:21:03,858 --> 01:21:04,926

BUYING THE SERVICE RATHER THAN

2230

01:21:04,993 --> 01:21:06,428

OWNING AND OPERATING THE

2231

01:21:06,494 --> 01:21:06,695

HARDWARE.

2232

01:21:06,761 --> 01:21:07,929

I'M GOING TO TELL YOU TODAY,

2233

01:21:07,996 --> 01:21:10,165

SIR, WE JUST RELEASED THE FIRST

2234

01:21:10,232 --> 01:21:11,266

TASK ORDER THIS MORNING TO

2235

01:21:11,333 --> 01:21:12,367

ACHIEVE THAT AND THERE'S SOME

2236

01:21:12,434 --> 01:21:13,935

PEOPLE MAYBE OUT HERE IN THE

2237

01:21:14,002 --> 01:21:15,470

AUDIENCE WHO NEED TO BE CHECKING

2238

01:21:15,537 --> 01:21:18,306

THEIR EMAIL RIGHT NOW WA BECAUSE

2239

01:21:18,373 --> 01:21:20,508

THAT TASK ORDER IS OUT,

2240

01:21:20,575 --> 01:21:21,710

PROPOSALS ARE DUE IN A MONTH AND

2241

01:21:21,776 --> 01:21:22,944

A MONTH AFTER THAT WE'RE GOING

2242

01:21:23,011 --> 01:21:24,646

TO BE AWARDING THOSE PROPOSALS

2243

01:21:24,713 --> 01:21:26,381

TO COMMERCIALY LAND SMALL

2244

01:21:26,448 --> 01:21:27,148

PAYLOADS ON THE SURFACE OF THE

2245

01:21:27,215 --> 01:21:29,084

MOON AS SOON AS POSSIBLE, MAYBE

2246

01:21:29,150 --> 01:21:29,684

2019.

2247

01:21:29,751 --> 01:21:32,821

THE GOAL OF COURSE IS 2020 TO

2248

01:21:32,887 --> 01:21:33,822

GET PAYLOADS TO THE SURFACE OF

2249

01:21:33,888 --> 01:21:34,322

THE MOON.

2250

01:21:34,389 --> 01:21:36,958

THE IMPORTANT THING THERE, SIR,

2251
01:21:37,025 --> 01:21:38,360
FOLLOWING YOUR DIRECTION FAIL

2252
01:21:38,426 --> 01:21:40,762
SMARTER, WE THINK OF THIS, THESE

2253
01:21:40,829 --> 01:21:43,665
ARE INEXPENSIVE MISSIONS.

2254
01:21:43,732 --> 01:21:45,433
WE ANTICIPATE THERE WILL BE

2255
01:21:45,500 --> 01:21:45,667
FAILURE.

2256
01:21:45,734 --> 01:21:48,203
I WANT TO BE REALLY CLEAR.

2257
01:21:48,270 --> 01:21:50,338
WHEN WE SEE FAILURE, THAT IS NOT

2258
01:21:50,405 --> 01:21:51,172
NECESSARILY FAILURE BECAUSE WE

2259
01:21:51,239 --> 01:21:51,940
ARE LEARNING.

2260
01:21:52,007 --> 01:21:53,241
THESE ARE INEXPENSIVE MISSIONS

2261
01:21:53,308 --> 01:21:54,743
WITH A LITTLE MORE RISK THAN

2262
01:21:54,809 --> 01:21:56,978
NORMAL BUT THERE'S NO HUMAN

2263
01:21:57,045 --> 01:21:57,879

LIVES INVOLVED.

2264

01:21:57,946 --> 01:21:59,881

BUT AT THE END OF THE DAY, IF

2265

01:21:59,948 --> 01:22:00,949

THEY ARE SUCCESSFUL, THE RETURN

2266

01:22:01,016 --> 01:22:03,918

IS EXCEPTIONALLY HIGH,

2267

01:22:03,985 --> 01:22:05,820

ESPECIALLY IF WE WANT TO GET

2268

01:22:05,887 --> 01:22:07,355

BOOTS ON THE MOON IN 2024.

2269

01:22:07,422 --> 01:22:09,357

THAT I THINK IS A GREAT

2270

01:22:09,424 --> 01:22:12,360

DIRECTION WHERE WE'RE HEADING

2271

01:22:12,427 --> 01:22:13,194

RIGHT NOW.

2272

01:22:13,261 --> 01:22:16,831

SIR, YOUR CHARGE TODAY WAS

2273

01:22:16,898 --> 01:22:17,399

FANTASTIC.

2274

01:22:17,465 --> 01:22:19,034

SO GRATEFUL FOR IT.

2275

01:22:19,100 --> 01:22:20,235

THIS AGENCY IS UP TO THE TASK.

2276

01:22:20,302 --> 01:22:21,936

WE'RE GOING TO DO EVERYTHING WE

2277

01:22:22,003 --> 01:22:22,904

CAN TO MEET IT.

2278

01:22:22,971 --> 01:22:23,672

THANK YOU.

2279

01:22:23,738 --> 01:22:23,838

SIR.

2280

01:22:23,905 --> 01:22:30,812

[Applause]

2281

01:22:30,879 --> 01:22:31,613

>> THANK YOU, JIM.

2282

01:22:31,680 --> 01:22:33,448

THANKS FOR THAT GREAT REPORT.

2283

01:22:33,515 --> 01:22:35,216

I KNOW IT'S AN INSPIRATION TO

2284

01:22:35,283 --> 01:22:37,752

PEOPLE HERE AT MARSHALL.

2285

01:22:37,819 --> 01:22:39,054

SPACE

2286

01:22:39,120 --> 01:22:40,655

CENTER AND THE PEOPLE LOOKING ON

2287

01:22:40,722 --> 01:22:41,389

ALL OVER THE COUNTRY.

2288

01:22:41,456 --> 01:22:45,627

I REALLY APPRECIATE YOUR

2289

01:22:45,694 --> 01:22:50,131

ENERGETIC LEADERSHIP.

2290

01:22:50,198 --> 01:22:52,200

AND REALLY YOU'RE THE RIGHT MAN

2291

01:22:52,267 --> 01:22:52,967

FOR THE JOB RIGHT NOW.

2292

01:22:53,034 --> 01:22:54,936

THANK YOU FOR MOVING OUT.

2293

01:22:55,003 --> 01:22:55,370

>> THANK YOU.

2294

01:22:55,437 --> 01:22:56,705

>> THANK YOU FOR MOVING OUT.

2295

01:22:56,771 --> 01:22:57,806

OKAY.

2296

01:22:57,872 --> 01:23:00,875

WITH THAT, I WANTED TO RECOGNIZE

2297

01:23:00,942 --> 01:23:04,612

A COUPLE OF PEOPLE FOR IMPROMPTU

2298

01:23:04,679 --> 01:23:07,449

REMARKS IF THEY HAVE THEM, ANY

2299

01:23:07,515 --> 01:23:09,351

REACTION, SUE GORDON IS A

2300

01:23:09,417 --> 01:23:10,552

PRINCIPAL DEPUTY DIRECTOR,

2301

01:23:10,618 --> 01:23:11,386

NATIONAL INTELLIGENCE.

2302

01:23:11,453 --> 01:23:13,288

SUE, ANY THOUGHTS FOR THE

2303

01:23:13,355 --> 01:23:14,589

NATIONAL SPACE COUNCIL TODAY ON

2304

01:23:14,656 --> 01:23:17,225

ROAD TRTOPICS RAISED?

2305

01:23:17,292 --> 01:23:18,626

>> I THINK IS INCREDIBLY EXCITE.

2306

01:23:18,693 --> 01:23:20,128

>> THE INTELLIGENCE COMMUNITY

2307

01:23:20,195 --> 01:23:22,797

HAS BEEN A SATELLITE PARTNER IN

2308

01:23:22,864 --> 01:23:24,199

SPACE FOR BOTH OF OUR HISTORIES

2309

01:23:24,265 --> 01:23:27,001

AND THE OPPORTUNITIES NOT JUST

2310

01:23:27,068 --> 01:23:30,538

THAT HEATHER IS ARTICULATING FOR

2311

01:23:30,605 --> 01:23:31,740

THE SPACE FORCE BUT I THINK THE

2312

01:23:31,806 --> 01:23:33,675

SPACE ENTERPRISE ARE EXCITING

2313

01:23:33,742 --> 01:23:34,676

AND THE SECOND IS PERSONAL.

2314

01:23:34,743 --> 01:23:36,177

I'M A CHILD OF THE SPACE RACE.

2315

01:23:36,244 --> 01:23:39,481

HOW IN THE WORLD COULD IT HAVE

2316

01:23:39,547 --> 01:23:40,715

BEEN 47 YEARS SINCE WHAT I

2317

01:23:40,782 --> 01:23:42,717

REMEMBER MOST OF MY CHILDHOOD AS

2318

01:23:42,784 --> 01:23:45,754

MY ELEVENTH BIRTHDAY WATCHING

2319

01:23:45,820 --> 01:23:46,955

THE LANDING ON THE MOON AND THIS

2320

01:23:47,021 --> 01:23:48,456

MEANS I'M WAY OLDER THAN I THINK

2321

01:23:48,523 --> 01:23:48,890

I AM.

2322

01:23:48,957 --> 01:23:50,258

[Laughter]

2323

01:23:50,325 --> 01:23:53,995

HOLY SMOKES.

2324

01:23:54,062 --> 01:23:55,397

ANYWAY, GREAT OPPORTUNITY.

2325

01:23:55,463 --> 01:23:58,199

YOU ALL WILL EACH HAVE US AS

2326

01:23:58,266 --> 01:23:59,401

YOUR CLOSEST PARTNER.

2327

01:24:00,435 --> 01:23:59,734

THANK YOU.

2328

01:24:00,502 --> 01:24:01,069

THAT'S GREAT.

2329

01:24:01,136 --> 01:24:02,470

THANK YOU, SUE GORDON.

2330

01:24:02,537 --> 01:24:04,472

THANK YOU FOR YOUR GREAT WORK IN

2331

01:24:04,539 --> 01:24:05,673

THE INTELLIGENCE COMMUNITY AND

2332

01:24:05,740 --> 01:24:10,712

THE AMERICAN PEOPLE SHOULD KNOW,

2333

01:24:10,779 --> 01:24:12,847

ESPECIALLY WELL PUT.

2334

01:24:12,914 --> 01:24:13,748

OUR INTELLIGENCE COMMUNITY HAS

2335

01:24:13,815 --> 01:24:15,450

BEEN A SILENT PARTNER OF THE

2336

01:24:15,517 --> 01:24:16,618

AMERICAN SPACE PROGRAM FOR

2337

01:24:16,684 --> 01:24:20,188

GENERATIONS AND IT'S BEEN A

2338

01:24:20,255 --> 01:24:20,989

PARTNERSHIP THAT'S CONTRIBUTED

2339

01:24:21,055 --> 01:24:21,990

TO THE SAFETY AND SECURITY OF

2340

01:24:22,056 --> 01:24:23,024

THE AMERICAN PEOPLE.

2341

01:24:23,091 --> 01:24:23,358

WE THANK YOU.

2342

01:24:23,425 --> 01:24:26,327

THANK YOU FOR YOUR LEADERSHIP.

2343

01:24:26,394 --> 01:24:28,763

ANDREA THOMPSON UNDER SECRETARY

2344

01:24:28,830 --> 01:24:31,599

OF STATE, DEPARTMENT OF STATE,

2345

01:24:31,666 --> 01:24:32,834

YOUR THOUGHTS ON TODAY'S

2346

01:24:32,901 --> 01:24:33,067

MEETING.

2347

01:24:33,134 --> 01:24:34,002

>> THANK YOU, SIR.

2348

01:24:34,068 --> 01:24:35,603

JUST VERY BRIEFLY, WHAT I HEARD

2349

01:24:35,670 --> 01:24:36,438

FROM ALL THE MEMBERS THAT HAVE

2350

01:24:36,504 --> 01:24:37,405

SPOKEN THIS MORNING, THERE'S A

2351
01:24:37,472 --> 01:24:39,307
COMMON THEME AND A COMMON THEME

2352
01:24:39,374 --> 01:24:40,742
FROM THE INDIVIDUALS HERE IN

2353
01:24:40,809 --> 01:24:42,177
ROCKET CITY THAT WE HAD A TOUR A

2354
01:24:42,243 --> 01:24:43,445
LITTLE BIT OF A TOUR EARLIER,

2355
01:24:43,511 --> 01:24:49,784
THE COMMON THEME IS LEADERSHIP.

2356
01:24:49,851 --> 01:24:50,618
WELL, WHETHER IT'S LEADERSHIP ON

2357
01:24:50,685 --> 01:24:52,720
THE LINE, IN THE LAB WHETHER

2358
01:24:52,787 --> 01:24:54,022
IT'S LEADERSHIP HERE WITH

2359
01:24:54,088 --> 01:24:55,657
POLICY, THAT'S WHAT'S GOING TO

2360
01:24:55,723 --> 01:24:56,424
MAKE A DIFFERENCE FOR THE SPACE

2361
01:24:56,491 --> 01:24:56,925
POLICY.

2362
01:24:56,991 --> 01:24:58,860
I WANT TO THANK EVERYONE HERE

2363
01:24:58,927 --> 01:25:02,664

AND KNOW THE LEADERSHIP OF THE

2364

01:25:02,730 --> 01:25:03,498

STATE DEPARTMENT FULLY SUPPORTS

2365

01:25:03,565 --> 01:25:04,566

THE EFFORTS WHETHER IT'S

2366

01:25:04,632 --> 01:25:06,301

CO-HOSTING THE SUMMIT WITH

2367

01:25:06,367 --> 01:25:07,602

SECRETARY ROSS WITH HIS TEAM IN

2368

01:25:07,669 --> 01:25:09,237

JUNE, WHETHER IT'S WORKING WITH

2369

01:25:09,304 --> 01:25:11,639

THE DEFENSE PARTNERS AND OTHERS

2370

01:25:11,706 --> 01:25:13,775

ON OUR VERY INTEGRATED EXPORT

2371

01:25:13,842 --> 01:25:15,677

CONTROL SYSTEM THAT WE ARE NOW

2372

01:25:15,743 --> 01:25:18,880

MAKING ANA MODERN AND AGILE

2373

01:25:18,947 --> 01:25:20,014

EXPORT CONTROL SYSTEM.

2374

01:25:20,081 --> 01:25:21,616

FOR THE INDUSTRY REPS OUT HERE,

2375

01:25:21,683 --> 01:25:23,117

IT SHOULDN'T TAKE YEARS, IT

2376

01:25:23,184 --> 01:25:24,252

SHOULD TAKE MONTHS AND IN SOME

2377

01:25:24,319 --> 01:25:26,354

CASES IT SHOULD TAKE WEEKS.

2378

01:25:26,421 --> 01:25:28,456

WE STAND IN SUPPORT FOR YOUR

2379

01:25:28,523 --> 01:25:29,257

EFFORT AND THE SPACE COUNCIL'S

2380

01:25:29,324 --> 01:25:30,792

EFFORTS TO MODERNIZE OUR

2381

01:25:30,859 --> 01:25:31,359

DIPLOMATIC EFFORTS.

2382

01:25:31,426 --> 01:25:33,094

THANK YOU TO THE COMMITTEE.

2383

01:25:33,161 --> 01:25:36,064

>> VERY WELL SAID, COLONEL.

2384

01:25:36,130 --> 01:25:36,831

EXCUSE ME.

2385

01:25:36,898 --> 01:25:38,733

SECRETARY THOMPSON.

2386

01:25:38,800 --> 01:25:42,837

GREAT FRIEND, SERVED THE COUNTRY

2387

01:25:42,904 --> 01:25:44,572

FOR MANY YEARS.

2388

01:25:44,639 --> 01:25:48,676

CLAIR GRADY IS THE ACTING DEPUTY

2389

01:25:48,743 --> 01:25:52,113
SECRETARY FOR HOMELAND

2390

01:25:52,180 --> 01:25:52,413
SECURITY.

2391

01:25:52,480 --> 01:25:56,851
>> WE'RE REALLY EXCITED BY THE

2392

01:25:56,918 --> 01:25:58,386
INNOVATION AND COMMITMENT WE

2393

01:25:58,453 --> 01:25:58,586
SEE.

2394

01:25:58,653 --> 01:26:01,990
FROM THE HOMELAND SECURITY WE

2395

01:26:02,056 --> 01:26:03,024
HAVE NOT BEEN ABLE TO CONTRIBUTE

2396

01:26:03,091 --> 01:26:04,926
AS MUCH AS SOME MEMBERS OF THE

2397

01:26:04,993 --> 01:26:09,731
PANEL BUT WE'RE VERY MUCH

2398

01:26:09,797 --> 01:26:12,634
SUPPORTIVE OF EVERYTHING THAT'S

2399

01:26:12,700 --> 01:26:17,972
HAPPENED AND WE HELP ADVANCE THE

2400

01:26:18,039 --> 01:26:19,207
SECURITY, CYBER SECURITY WILL

2401
01:26:19,274 --> 01:26:20,208
BECOME A MAJOR FACTOR AND IT

2402
01:26:20,275 --> 01:26:22,644
ALREADY IS AND WE STAND BEHIND

2403
01:26:22,710 --> 01:26:23,645
AND EXCITED TO SUPPORT ALL THE

2404
01:26:23,711 --> 01:26:25,747
PROGRESS THAT IS BEING MADE AND

2405
01:26:25,813 --> 01:26:27,482
THE ACCELERATION IS EXCITING.

2406
01:26:27,549 --> 01:26:29,083
AND THE INNOVATIONS THAT WILL

2407
01:26:29,150 --> 01:26:30,485
COME WILL BENEFIT NOT JUST THE

2408
01:26:30,552 --> 01:26:31,920
SPACE INDUSTRY BUT THE ENTIRE

2409
01:26:31,986 --> 01:26:33,021
GOVERNMENT AND THE ENTIRE

2410
01:26:33,087 --> 01:26:34,155
AMERICAN PEOPLE.

2411
01:26:34,222 --> 01:26:34,822
>> GREAT.

2412
01:26:34,889 --> 01:26:38,159
THANK YOU, CLAIRE.

2413
01:26:38,226 --> 01:26:39,761

THANKS FOR BEING HERE AND FOR

2414

01:26:39,827 --> 01:26:41,195

THE SECRETARY'S STRONG SUPPORT

2415

01:26:41,262 --> 01:26:43,665

OF THE NATIONAL SPACE COUNCIL'S

2416

01:26:43,731 --> 01:26:43,865

WORK.

2417

01:26:43,932 --> 01:26:45,066

I'M GOING TO GO AHEAD AND ASK A

2418

01:26:45,133 --> 01:26:46,601

COUPLE OTHER MEMBERS OF THE

2419

01:26:46,668 --> 01:26:48,603

PANEL TO SPEAK FOR THE RECORD

2420

01:26:48,670 --> 01:26:50,305

BUT THE FIRST PANEL, IF THE

2421

01:26:50,371 --> 01:26:51,739

FIRST PANEL WANTS TO MAKE THEIR

2422

01:26:51,806 --> 01:26:51,940

WAY.

2423

01:26:52,006 --> 01:26:53,141

GENERAL, IF YOU WANT TO HEAD UP.

2424

01:26:53,207 --> 01:27:00,782

>> YOUYOU CAN GET SI SITUATED AT

2425

01:27:00,848 --> 01:27:01,182

COMFORTABLE.

2426
01:27:01,249 --> 01:27:02,116
MEMBERS OF THE NATIONAL SPACE

2427
01:27:02,183 --> 01:27:03,451
COUNCIL HAS BEEN A FULL PARTNER

2428
01:27:03,518 --> 01:27:05,653
IN THIS EFFORT.

2429
01:27:05,720 --> 01:27:08,623
THE PRESIDENT HAS SENT TO

2430
01:27:08,690 --> 01:27:10,959
CONGRESS AND ALREADY SIGNED INTO

2431
01:27:11,025 --> 01:27:12,160
LAW IN PREVIOUS APPROPRIATIONS

2432
01:27:12,226 --> 01:27:14,996
THE LARGEST NASA BUDGET IN

2433
01:27:15,063 --> 01:27:17,599
RECENT MEMORY AND JIM HART IS

2434
01:27:17,665 --> 01:27:19,934
THE ASSOCIATE DIRECTOR OF OMV

2435
01:27:20,001 --> 01:27:22,937
AND HAS BEEN CRITICAL TO THAT.

2436
01:27:23,004 --> 01:27:23,237
JIM, THANKS.

2437
01:27:23,304 --> 01:27:25,773
YOUR THOUGHTS.

2438
01:27:25,840 --> 01:27:27,675

>> THANK YOU, SIR.

2439

01:27:27,742 --> 01:27:30,979

YES, OMB HAS BEEN A CRITICAL

2440

01:27:31,045 --> 01:27:31,679

PARTNER IN THIS EFFORT AND WE

2441

01:27:31,746 --> 01:27:32,580

LOOK FORWARD TO CONTINUING TO BE

2442

01:27:32,647 --> 01:27:33,281

A PARTNER.

2443

01:27:33,348 --> 01:27:35,617

WE JUST RELEASED THE PRESIDENT'S

2444

01:27:35,683 --> 01:27:36,951

BUDGET IN THE PAST COUPLE OF

2445

01:27:37,018 --> 01:27:37,218

WEEKS.

2446

01:27:37,285 --> 01:27:39,721

WE PUT VERY STRONG REQUESTS FOR

2447

01:27:39,787 --> 01:27:41,923

SPACE EXPLORATION, ESPECIALLY IN

2448

01:27:41,990 --> 01:27:42,156

LUNAR.

2449

01:27:42,223 --> 01:27:43,691

I CAN WALK YOU THROUGH SOME OF

2450

01:27:43,758 --> 01:27:45,293

THE HIGHLIGHTS BUT I CAN TELL

2451
01:27:45,360 --> 01:27:48,796
YOU JUST IN SUMMARY VERY STRONG

2452
01:27:48,863 --> 01:27:50,365
REQUEST FOR SPACE EXPLORATION.

2453
01:27:50,431 --> 01:27:53,034
WE LOOK FORWARD TO SEEING YOUR

2454
01:27:53,101 --> 01:27:54,369
VISION TO RETURN U.S. ASTRONAUTS

2455
01:27:54,435 --> 01:27:57,071
TO THE MOON IN 2024.

2456
01:27:57,138 --> 01:27:57,372
>> GREAT.

2457
01:27:57,438 --> 01:27:59,974
WE'LL BE COMING TO OMB.

2458
01:28:00,041 --> 01:28:02,043
>> I EXPECT YOU WILL.

2459
01:28:02,110 --> 01:28:03,611
>> ISN'T THAT RIGHT, GOVERNOR?

2460
01:28:03,678 --> 01:28:06,648
WE'LL BE HEADED THAT WAY.

2461
01:28:06,714 --> 01:28:10,451
THANKS FOR THE GREAT SUPPORT,

2462
01:28:10,518 --> 01:28:10,752
JIM.

2463
01:28:10,818 --> 01:28:12,053

I KNOW IT'S HEARTFELT.

2464

01:28:12,120 --> 01:28:13,554

I'M ASKING TO ASK YOU, JIM, GRAB

2465

01:28:13,621 --> 01:28:16,190

YOUR CHAIR AND COME AROUND TO

2466

01:28:16,257 --> 01:28:17,492

THE OTHER SIDE HERE SO EVERYBODY

2467

01:28:17,558 --> 01:28:20,728

ON THE PANEL HAS A CLEAR LINE OF

2468

01:28:20,795 --> 01:28:23,765

SIGHT FOR OUR PANELISTS.

2469

01:28:23,831 --> 01:28:25,566

I'LL ASK THE DEPUTY ASSISTANT TO

2470

01:28:25,633 --> 01:28:27,068

THE PRESIDENT FOR

2471

01:28:27,135 --> 01:28:29,704

COUNTERTERRORISM HOMELAND

2472

01:28:29,771 --> 01:28:29,971

SECURITY.

2473

01:28:30,038 --> 01:28:31,572

THANK YOU FOR YOUR INVOLVEMENT.

2474

01:28:31,639 --> 01:28:32,840

>> THANK YOU FOR YOUR LEADERSHIP

2475

01:28:32,907 --> 01:28:34,242

IN THIS AND PRESIDENT'S AS WELL.

2476
01:28:34,308 --> 01:28:37,578
AS ACTING DEPUTY SECRETARY GRADY

2477
01:28:37,645 --> 01:28:40,014
SAID, THE HOMELAND NEXUS HERE IS

2478
01:28:40,081 --> 01:28:41,115
PRETTY CLEAR IN THE FUTURE OF

2479
01:28:41,182 --> 01:28:42,316
CYBER AS WELL AS POSITION,

2480
01:28:42,383 --> 01:28:43,451
NAVIGATION AND TIMING HAS THE

2481
01:28:43,518 --> 01:28:45,853
RELATES TO OUR CRITICAL

2482
01:28:45,920 --> 01:28:46,954
INFRASTRUCTURE AND SO WE'RE

2483
01:28:47,021 --> 01:28:48,723
EXCITED THAT WE HAVE A VISION.

2484
01:28:48,790 --> 01:28:50,625
WE'RE EXCITED THAT WE HAVE

2485
01:28:50,692 --> 01:28:51,392
LEADERSHIP AND WE'RE GRATEFUL TO

2486
01:28:51,459 --> 01:28:52,794
BE A PART OF IT.

2487
01:28:52,860 --> 01:28:54,228
THANK YOU, SIR.

2488
01:28:54,295 --> 01:28:54,529

>> GREAT.

2489

01:28:54,595 --> 01:28:55,029

THANK YOU, DOUG.

2490

01:28:55,096 --> 01:28:59,867

IF YOU WANT TO RESIT SITUATE.

2491

01:28:59,934 --> 01:29:00,668

>> YES, SIR.

2492

01:29:00,735 --> 01:29:02,437

>> YOU CAN SADDLE UP TO THE

2493

01:29:02,503 --> 01:29:02,637

TABLE.

2494

01:29:02,704 --> 01:29:04,472

YOU DON'T NEED TO STAND.

2495

01:29:04,539 --> 01:29:04,972

YOU'RE FINE.

2496

01:29:05,039 --> 01:29:06,140

I JUST WANT TO MAKE SURE

2497

01:29:06,207 --> 01:29:07,742

EVERYBODY HAS AN OPPORTUNITY TO

2498

01:29:07,809 --> 01:29:12,313

SEE AND INTERACT WITH ALL OF OUR

2499

01:29:12,380 --> 01:29:12,580

PANELISTS.

2500

01:29:12,647 --> 01:29:13,381

LET ME INTRODUCE ALL THREE OF

2501
01:29:13,448 --> 01:29:14,315
THE PANELISTS.

2502
01:29:14,382 --> 01:29:16,217
THESE ARE THREE INCREDIBLE

2503
01:29:16,284 --> 01:29:17,051
AMERICANS.

2504
01:29:17,118 --> 01:29:20,755
WE'RE VERY GRATEFUL FOR YOUR

2505
01:29:20,822 --> 01:29:22,590
PARTICIPATION TODAY.

2506
01:29:22,657 --> 01:29:24,325
GENERAL LES LILES IS A FORMER

2507
01:29:24,392 --> 01:29:27,228
AIR FORCE CHIEF OF STAFF,

2508
01:29:27,295 --> 01:29:28,329
COMMANDER OF AIR FORCE MATERIAL

2509
01:29:28,396 --> 01:29:28,629
COMMAND.

2510
01:29:28,696 --> 01:29:33,868
HE SERVESSED AS A DIRECTOR OF

2511
01:29:33,935 --> 01:29:37,705
FORTUNE 500 AEROSPACE DEFENSE

2512
01:29:37,772 --> 01:29:40,508
COMPANIES IN THE PAST, CURRENTLY

2513
01:29:40,575 --> 01:29:45,680

A KEY MEMBER OF THE NATIONAL

2514

01:29:45,747 --> 01:29:46,781

SPACE COUNCIL USER ADVISORY

2515

01:29:46,848 --> 01:29:47,014

GROUP.

2516

01:29:47,081 --> 01:29:49,117

SECOND PANELIST IS NO STRANGER

2517

01:29:49,183 --> 01:29:50,718

TO THESE ENVIRONMENTS.

2518

01:29:50,785 --> 01:29:51,953

SHE FLEW ON FOUR SHUTTLE

2519

01:29:52,019 --> 01:29:55,790

MISSIONS INCLUDING STS63 AS THE

2520

01:29:55,857 --> 01:29:57,592

FIRST FEMALE SHUTTLE PILOT, 93

2521

01:29:57,658 --> 01:29:59,293

AS THE FIRST FEMALE SHUTTLE

2522

01:29:59,360 --> 01:30:05,333

COMMANDER AND STS 114 AS THE

2523

01:30:05,399 --> 01:30:09,103

COMMANDER OF THE SHUTTLE

2524

01:30:09,170 --> 01:30:10,138

POST-COLUMBIA RETURN TO FLIGHT.

2525

01:30:10,204 --> 01:30:11,706

SHE SAID TODAY AT THE USER

2526

01:30:11,773 --> 01:30:13,141

ADVISORY GROUP SHE WAS

2527

01:30:13,207 --> 01:30:14,041

ESPECIALLY EXCITED TO HEAR THAT

2528

01:30:14,108 --> 01:30:15,042

THE FIRST WOMAN ON THE MOON

2529

01:30:15,109 --> 01:30:16,677

WOULD BE AN AMERICAN.

2530

01:30:16,744 --> 01:30:22,517

[Applause]

2531

01:30:22,583 --> 01:30:24,085

THANK YOU FOR YOUR LEADERSHIP

2532

01:30:24,152 --> 01:30:25,753

AND INSPIRING EXAMPLE.

2533

01:30:25,820 --> 01:30:27,455

THE THIRD PANELIST IS

2534

01:30:27,522 --> 01:30:29,357

Dr. SANDY MAGNUS, ALSO A

2535

01:30:29,423 --> 01:30:31,759

FOUR-TIME SHUTTLE ASTRONAUT WHO

2536

01:30:31,826 --> 01:30:34,629

FLEW AS EMISSIONS SPECIALIST ON

2537

01:30:34,695 --> 01:30:36,130

STS135 IN 2011 AND THE MOST

2538

01:30:36,197 --> 01:30:38,900

RECENT ORBITAL CREWED FLIGHT

2539

01:30:38,966 --> 01:30:40,968
FROM U.S. SOIL IN 2012 TO '18,

2540

01:30:41,035 --> 01:30:44,372
SHE SERVED AS EXECUTIVE DIRECTOR

2541

01:30:44,438 --> 01:30:46,107
OF AMERICAN INSTITUTE OF

2542

01:30:46,174 --> 01:30:51,879
AERONAUTICS AND ASTRONAUTICS,

2543

01:30:51,946 --> 01:30:53,681
THANK YOU FOR YOUR COURAGEOUS

2544

01:30:53,748 --> 01:30:54,882
LEADERSHIP AND YOUR CONTRIBUTION

2545

01:30:54,949 --> 01:30:57,084
TO THE NATION PAST AND PRESENT.

2546

01:30:57,151 --> 01:31:00,321
JOIN ME IN THANKING ALL THREE OF

2547

01:31:00,388 --> 01:31:02,356
THESE PANELISTS FOR THEIR

2548

01:31:02,423 --> 01:31:02,957
LIFETIME OF SERVICE.

2549

01:31:03,024 --> 01:31:03,357
[Applause]

2550

01:31:03,424 --> 01:31:06,394
I'M GOING TO RECOGNIZE

2551
01:31:06,460 --> 01:31:07,295
Dr. SANDY MAGNUS FIRST AND

2552
01:31:07,361 --> 01:31:09,797
WE'LL HEAR FROM EACH OF THE

2553
01:31:09,864 --> 01:31:10,932
PANELISTS, YOUR COMMENTS AND

2554
01:31:10,998 --> 01:31:11,732
THEN WE'LL TAKE QUESTIONS FROM

2555
01:31:11,799 --> 01:31:12,066
THE PANEL.

2556
01:31:12,133 --> 01:31:15,336
THE TOPIC OF THIS PANEL IS WE'RE

2557
01:31:15,403 --> 01:31:17,171
READY TO FLY.

2558
01:31:17,238 --> 01:31:19,907
WE FEEL LIKE FOR MANY YEARS,

2559
01:31:19,974 --> 01:31:21,108
MANY OF YOU AND PARTICULARLY

2560
01:31:21,175 --> 01:31:22,710
THOSE OF YOU INVOLVED IN THE

2561
01:31:22,777 --> 01:31:23,744
USER ADVISORY GROUP, THE

2562
01:31:23,811 --> 01:31:26,147
NATIONAL SPACE COUNCIL ARE READY

2563
01:31:26,214 --> 01:31:27,882

TO SEE AMERICAN HUMAN SPACE

2564

01:31:27,949 --> 01:31:33,020

EXPLORATION LEADING, REACHING

2565

01:31:33,087 --> 01:31:34,055

OUT ONCE AGAIN IN SPACE.

2566

01:31:34,121 --> 01:31:36,224

I WANT TO THANK YOU FOR PRESSING

2567

01:31:36,290 --> 01:31:38,059

AND LOOK FORWARD TO YOUR REMARKS

2568

01:31:38,125 --> 01:31:39,393

ON THEME TODAY.

2569

01:31:39,460 --> 01:31:40,461

Dr. SANDY MAGNUS, YOU ARE

2570

01:31:40,528 --> 01:31:40,761

RECOGNIZED.

2571

01:31:40,828 --> 01:31:46,634

>> THANK YOU, Mr. VERY MUCH.

2572

01:31:46,701 --> 01:31:47,835

MEMBERS OF THE NATIONAL SPACE

2573

01:31:47,902 --> 01:31:49,737

COUNCIL, LADIES AND GENTLEMEN,

2574

01:31:49,804 --> 01:31:51,639

I'M HONORED TO APPEAR ON THE

2575

01:31:51,706 --> 01:31:53,207

EVE OF THE U.S. SPACE FLIGHT

2576
01:31:53,274 --> 01:31:54,775
CAPACITY TO THE U.S. AND SHAVE

2577
01:31:54,842 --> 01:32:00,815
MY THOUGHTS LONG AWAITED

2578
01:32:00,882 --> 01:32:01,115
MILESTONE.

2579
01:32:01,182 --> 01:32:10,791
IN OCTOBER WE'RE CELEBRATING

2580
01:32:10,858 --> 01:32:12,293
THE AMAZING ACCOMPLISHMENTS.

2581
01:32:12,360 --> 01:32:13,561
IN 2019 WE LOOK TO THE FORWARD.

2582
01:32:13,628 --> 01:32:15,429
50 YEARS AFTER APOLLO AMERICAN

2583
01:32:15,496 --> 01:32:17,899
INVITATION AND LEADERSHIP ONCE

2584
01:32:17,965 --> 01:32:19,233
AGAIN TRANSFORMING HOW HUMANS

2585
01:32:19,300 --> 01:32:19,867
ENGAGE IN SPACE.

2586
01:32:19,934 --> 01:32:22,937
THIS YEAR POTENTIALLY AS MANY AS

2587
01:32:23,004 --> 01:32:25,172
FOUR NEW U.S. SPACE VEHICLES

2588
01:32:25,239 --> 01:32:26,974

BEGIN SUBORBITAL AND ORBITAL

2589

01:32:27,041 --> 01:32:27,975

OPERATIONS NOT ONLY PROVIDING

2590

01:32:28,042 --> 01:32:29,911

OUR COUNTRY WITH THE LONG

2591

01:32:29,977 --> 01:32:31,178

AWAITED HUMAN ACCESS TO

2592

01:32:31,245 --> 01:32:32,413

LOW-EFFORT ORBIT BUT ALSO

2593

01:32:32,480 --> 01:32:33,614

EXPANDING AND DIVERSIFYING

2594

01:32:33,681 --> 01:32:34,749

TRAVEL OFF OUR PLANET.

2595

01:32:34,815 --> 01:32:36,951

WE STILL HAVE A LOT TO LEARN AND

2596

01:32:37,018 --> 01:32:38,786

MANY CHALLENGES YET REMAIN BUT

2597

01:32:38,853 --> 01:32:39,353

I'M EXCITED ABOUT THE

2598

01:32:39,420 --> 01:32:40,354

OPPORTUNITIES AHEAD.

2599

01:32:40,421 --> 01:32:44,892

WITH OUR OWN HUMAN LAUNCH

2600

01:32:44,959 --> 01:32:45,960

CAPABILITY, WE CAN DECIDE ON THE

2601
01:32:46,027 --> 01:32:47,728
CADENCE OF MISSIONS TO THE ISS.

2602
01:32:47,795 --> 01:32:50,731
OUR EFFORTS TO GROW A PRIVATE

2603
01:32:50,798 --> 01:32:55,670
SECTOR NONGOVERNMENTAL DEPENDENT

2604
01:32:55,736 --> 01:32:59,073
BUSINESS SPACE IN LOW-EARTH

2605
01:32:59,140 --> 01:32:59,307
ORBIT.

2606
01:32:59,373 --> 01:33:01,609
IF WE SO CHOOSE WE'LL SOON HAVE

2607
01:33:01,676 --> 01:33:03,110
THE OPPORTUNITY TO SEND CREATIVE

2608
01:33:03,177 --> 01:33:04,712
ENGINEERS AND SCIENTISTS

2609
01:33:04,779 --> 01:33:06,347
INVENTORS AND TECHNOLOGISTS FOR

2610
01:33:06,414 --> 01:33:09,650
SHORT DURATION STAYS ON THE ISS

2611
01:33:09,717 --> 01:33:11,686
TO DEEPEN THEIR UNDERSTANDING OF

2612
01:33:11,752 --> 01:33:15,089
THE POTENTIAL OF UTILIZATION OF

2613
01:33:15,156 --> 01:33:15,589

MICROGRAVITY.

2614

01:33:15,656 --> 01:33:16,691

THE RESUMPTION OF LAUNCH FROM

2615

01:33:16,757 --> 01:33:19,527

U.S. SOIL IS AN OPPORTUNITY TO

2616

01:33:19,593 --> 01:33:20,328

INSPIRE AND ENGAGE YOUNG PEOPLE

2617

01:33:20,394 --> 01:33:22,029

AND ALL OF OUR CITIZENRY, A

2618

01:33:22,096 --> 01:33:24,065

VIBRANT, ACTIVE, HIGHLY VISIBLE

2619

01:33:24,131 --> 01:33:26,867

SPACE PROGRAM PROVIDES AN

2620

01:33:26,934 --> 01:33:28,269

EXCELLENT METHOD TO ENGAGE OUR

2621

01:33:28,336 --> 01:33:29,270

YOUTH IN THE STEM FIELD.

2622

01:33:29,337 --> 01:33:32,206

THE FACT THAT WE'VE NOT NOT AN

2623

01:33:32,273 --> 01:33:33,207

INDIGENOUS LAUNCH CAPABILITY IN

2624

01:33:33,274 --> 01:33:34,241

NEARLY EIGHT YEARS TO INSPIRE

2625

01:33:34,308 --> 01:33:35,810

YOUNG PEOPLE IS PROFOUNDLY

2626
01:33:35,876 --> 01:33:36,110
DISTURBING.

2627
01:33:36,177 --> 01:33:37,144
WE HAVE FAILED AN ENTIRE

2628
01:33:37,211 --> 01:33:38,746
GENERATION AND I'M EXCITED IT IS

2629
01:33:38,813 --> 01:33:39,647
SHORTLY TO BE REMEDIED.

2630
01:33:39,714 --> 01:33:41,949
THIS YEAR AFTER A LONG WAIT, AND

2631
01:33:42,016 --> 01:33:43,985
MUCH ANTICIPATION, PRIVATE

2632
01:33:44,051 --> 01:33:45,486
CITIZENS TRAVELING TO THE NEAR

2633
01:33:45,553 --> 01:33:46,220
REACHES OF SPACE WILL EXPERIENCE

2634
01:33:46,287 --> 01:33:48,990
OUR PLANET IN NEW WAYS.

2635
01:33:49,056 --> 01:33:51,158
THEIR BRIEF SUBORBITAL JOURNEY

2636
01:33:51,225 --> 01:33:52,259
WILL PROVIDE THEM A

2637
01:33:52,326 --> 01:33:53,361
LIFE-CHANGING PERCEPTION ABOUT

2638
01:33:53,427 --> 01:33:54,161

GRAVITY, EARTH AND RELATIONSHIP

2639

01:33:54,228 --> 01:33:55,162

AS HUMANS TO OUR HOME.

2640

01:33:55,229 --> 01:33:57,598

SIMILAR TO THE ICONIC PHOTO OF

2641

01:33:57,665 --> 01:33:58,199

THE EARTH TITLED EARTH RISE

2642

01:33:58,265 --> 01:34:01,102

TAKEN FROM THE MOON DURING

2643

01:34:01,168 --> 01:34:02,203

APOLLO 8 THAT SPARKED THE

2644

01:34:02,269 --> 01:34:04,605

ENVIRONMENTAL MOVEMENT, THE

2645

01:34:04,672 --> 01:34:05,840

EXPANSION OF HUMANS TO EXPAND TO

2646

01:34:05,906 --> 01:34:09,777

OUR PLANET AS I HAVE IS ONE

2647

01:34:09,844 --> 01:34:11,345

INTERCONNECTED HOME TO ALL OF US

2648

01:34:11,412 --> 01:34:12,980

WILL INSPIRE RENEWED COMMITMENT

2649

01:34:13,047 --> 01:34:14,782

TO SOLVE COMPLEX PROBLEMS FACING

2650

01:34:14,849 --> 01:34:14,949

US.

2651
01:34:15,016 --> 01:34:16,283
AS WE LOOK FORWARD TO YEAR TO

2652
01:34:16,350 --> 01:34:17,651
THESE AND OTHER OPPORTUNITIES

2653
01:34:17,718 --> 01:34:18,919
THAT WILL EMERGE THE FUTURE IS

2654
01:34:18,986 --> 01:34:20,021
OURS TO SHAPE.

2655
01:34:20,087 --> 01:34:22,056
BUT IN THE PROCESS OF CREATING

2656
01:34:22,123 --> 01:34:23,557
THE FUTURE WE HAVE LESSONS TO

2657
01:34:23,624 --> 01:34:24,558
RELEARN AND WE'LL HAVE NEW

2658
01:34:24,625 --> 01:34:25,960
CHALLENGES TO ADDRESS.

2659
01:34:26,027 --> 01:34:27,194
IT'S BEEN NEARLY EIGHT YEARS

2660
01:34:27,261 --> 01:34:28,596
SINCE WE HAVE LAUNCHED HUMANS

2661
01:34:28,662 --> 01:34:30,698
INTO SPACE AND IN THE SUBSEQUENT

2662
01:34:30,765 --> 01:34:33,000
GAP, WE HAVE LOST CRITICAL

2663
01:34:33,067 --> 01:34:34,335

PERSONNEL AND CORPORATE

2664

01:34:34,402 --> 01:34:34,802

KNOWLEDGE.

2665

01:34:34,869 --> 01:34:37,238

THE SUCCESSFUL LAUNCH OF THE

2666

01:34:37,304 --> 01:34:39,673

SPACEX DEMO 1 FLIGHT EARLIER

2667

01:34:39,740 --> 01:34:41,475

THIS MONTH WHERE THE NASA AND

2668

01:34:41,542 --> 01:34:42,810

SPACEX TEAMS WORK CLOSELY TO

2669

01:34:42,877 --> 01:34:44,979

EXERCISE IN FULL THE PROCESS AND

2670

01:34:45,046 --> 01:34:46,814

PROCEDURES LAUNCHED TO LAUNCH

2671

01:34:46,881 --> 01:34:48,416

HUMANS, THERE'S TESTAMENT TO THE

2672

01:34:48,482 --> 01:34:50,051

FACT WE CAN RELEARN THESE

2673

01:34:50,117 --> 01:34:50,451

SKILLS.

2674

01:34:50,518 --> 01:34:51,652

OPERATIONAL SKILLS ARE

2675

01:34:51,719 --> 01:34:53,054

PERISHABLE AND A REGULAR CADENCE

2676

01:34:53,120 --> 01:34:54,655
OF LAUNCHES WILL BENEFIT

2677

01:34:54,722 --> 01:34:54,922
EVERYONE.

2678

01:34:54,989 --> 01:34:56,390
AS WE EXPAND INTO THE NEW

2679

01:34:56,457 --> 01:34:57,992
FRONTIER FACING US IN SPACE,

2680

01:34:58,059 --> 01:34:59,527
WE'LL CONTINUE TO WRESTLE WITH

2681

01:34:59,593 --> 01:35:01,629
THE QUESTION HOW SAFE IS SAFE

2682

01:35:01,695 --> 01:35:02,630
ENOUGH.

2683

01:35:02,696 --> 01:35:03,931
AS WE DEBATE ACCEPTABLE RISK

2684

01:35:03,998 --> 01:35:05,066
LEVELS, WE MUST BE HONEST ABOUT

2685

01:35:05,132 --> 01:35:06,967
WHAT WE KNOW AND WHAT WE DON'T

2686

01:35:07,034 --> 01:35:07,368
KNOW.

2687

01:35:07,435 --> 01:35:09,670
WE MUST HAVE FRANK DISCUSSIONS

2688

01:35:09,737 --> 01:35:11,072

ABOUT OUR RISK POSTURE, HOW TO

2689

01:35:11,138 --> 01:35:14,308

DEAL WITH THE CONSEQUENCES OF

2690

01:35:14,375 --> 01:35:16,911

OUR DECISIONS ABOUT LESSONS

2691

01:35:16,977 --> 01:35:18,045

LEARNED FROM FAILURES AND HOW TO

2692

01:35:18,112 --> 01:35:19,447

IMPLEMENT THOSE COSTLY LESSONS

2693

01:35:19,513 --> 01:35:20,848

TO AVOID MAKING THE SAME MISTAKE

2694

01:35:20,915 --> 01:35:21,148

TWICE.

2695

01:35:21,215 --> 01:35:22,883

THE PRIVATE COMPANIES THAT ARE

2696

01:35:22,950 --> 01:35:23,984

CURRENTLY INTERESTED IN AND WILL

2697

01:35:24,051 --> 01:35:25,119

BE ENGAGING IN ACTIVITIES IN

2698

01:35:25,186 --> 01:35:26,387

SPACE ARE MOTIVATED TO CREATE

2699

01:35:26,454 --> 01:35:29,690

THE SAFEST SYSTEMS THEY CAN.

2700

01:35:29,757 --> 01:35:30,825

THE SUCCESS OF THEIR BUSINESSES

2701
01:35:30,891 --> 01:35:32,126
DEPENDS UPON IT.

2702
01:35:32,193 --> 01:35:34,328
BUT AS ACTIVITIES IN LOW-EARTH

2703
01:35:34,395 --> 01:35:38,866
ORBIT EVOLVE AND UNCOUPLE FROM

2704
01:35:38,933 --> 01:35:42,403
GOVERNMENT-DRIVEN MISSIONS THE

2705
01:35:42,470 --> 01:35:45,406
IMPERATIVE FOR PROFIT WILL ENTER

2706
01:35:45,473 --> 01:35:45,639
INTO.

2707
01:35:45,706 --> 01:35:47,041
LIKE OTHER INDUSTRIES THAT HAVE

2708
01:35:47,108 --> 01:35:48,109
STRUGGLED WITH THIS QUESTION,

2709
01:35:48,175 --> 01:35:49,510
FOR EXAMPLE MINING, SHIPPING,

2710
01:35:49,577 --> 01:35:51,545
OIL, THE EMERGING PRIVATE SPACE

2711
01:35:51,612 --> 01:35:53,581
SECTOR WILL NEED TO FIND BALANCE

2712
01:35:53,647 --> 01:35:54,682
BETWEEN PROFIT AND SAFETY.

2713
01:35:54,748 --> 01:35:55,783

I BELIEVE THIS WILL BE ONE OF

2714

01:35:55,850 --> 01:35:56,917

THE MOST DIFFICULT LESSONS WE

2715

01:35:56,984 --> 01:35:57,585

WILL LEARN AS A COMMUNITY OVER

2716

01:35:57,651 --> 01:35:58,953

THE COMING DECADES AND BEYOND.

2717

01:35:59,019 --> 01:36:01,655

IT IS IMPORTANT TO VISUALIZE THE

2718

01:36:01,722 --> 01:36:03,424

DESIRED LONG-TERM STUDY

2719

01:36:03,491 --> 01:36:06,360

ECOSYSTEM WE WANT TO ESTABLISH

2720

01:36:06,427 --> 01:36:08,162

AS WE INCREASE HUMAN PRESENCE IN

2721

01:36:08,229 --> 01:36:08,762

LOW-EARTH ORBIT.

2722

01:36:08,829 --> 01:36:10,297

TO REALIZE THAT VISION WE MUST

2723

01:36:10,364 --> 01:36:11,298

CONSTANTLY QUESTION WHY WE DO

2724

01:36:11,365 --> 01:36:12,900

THINGS THE WAY WE CURRENTLY

2725

01:36:12,967 --> 01:36:14,301

COTHIS.

2726

01:36:14,368 --> 01:36:15,503

ASSUMPTIONS AND EXPERIENCES

2727

01:36:15,569 --> 01:36:16,737

THAT FORMED OUR CURRENT PROCESS

2728

01:36:16,804 --> 01:36:20,307

AND PROCEDURES MAY OR MAY NOT BE

2729

01:36:20,374 --> 01:36:22,143

APPLICABLE TO THE ECOSYSTEM

2730

01:36:22,209 --> 01:36:22,943

WE'RE TRYING TO CREATE.

2731

01:36:23,010 --> 01:36:24,345

THIS WILL BE HARD.

2732

01:36:24,411 --> 01:36:25,379

PROBING WHY WILL CHALLENGE THE

2733

01:36:25,446 --> 01:36:27,581

STATUS QUO AND CREATE TENSION

2734

01:36:27,648 --> 01:36:28,983

ACROSS THE COMMUNITY.

2735

01:36:29,049 --> 01:36:30,017

USES, JOBS AND EVEN

2736

01:36:30,084 --> 01:36:30,718

INFRASTRUCTURE THAT CURRENTLY

2737

01:36:30,784 --> 01:36:32,319

EXISTS WILL HAVE TO EVOLVE OR

2738

01:36:32,386 --> 01:36:33,921

BECOME OBSOLETE.

2739

01:36:33,988 --> 01:36:35,222

HOWEVER, AMERICANS ARE GOOD AT

2740

01:36:35,289 --> 01:36:39,894

TACKLING COMPLEX PROBLEMS AND I

2741

01:36:39,960 --> 01:36:40,761

HAVE FAITH THE NECESSARY CHANGE

2742

01:36:40,828 --> 01:36:41,729

IS POSSIBLE.

2743

01:36:41,795 --> 01:36:42,997

WE ARE ON THE VERGE OF GREAT

2744

01:36:43,063 --> 01:36:43,297

THINGS.

2745

01:36:43,364 --> 01:36:45,032

RESUMING INDEPENDENT ASSURED

2746

01:36:45,099 --> 01:36:45,966

HUMAN ACCESS TO SPACE IS THE

2747

01:36:46,033 --> 01:36:46,901

NEXT STEP TO TAKE AMERICANS TO

2748

01:36:46,967 --> 01:36:47,935

THE STARS.

2749

01:36:48,002 --> 01:36:49,837

ACCESS TO SPACE IS THE KEY

2750

01:36:49,904 --> 01:36:51,705

ENABLER AND THIS YEAR AS WE GET

2751
01:36:51,772 --> 01:36:53,874
REAREADY TO GO FLY HUMAN BEINGS

2752
01:36:53,941 --> 01:36:54,975
ONCE AGAIN WE ARE REGAINING THAT

2753
01:36:55,042 --> 01:36:56,443
ACCESS NOT JUST IN THE SINGULAR

2754
01:36:56,510 --> 01:36:58,812
MANNER BUT IN A MULTIPLICITY OF

2755
01:36:58,879 --> 01:36:59,013
WAYS.

2756
01:36:59,079 --> 01:37:00,748
I CAN SAY WITH CONFIDENCE ON

2757
01:37:00,814 --> 01:37:03,651
BEHALF OF THE WHOLE SPACE

2758
01:37:03,717 --> 01:37:04,351
COMMUNITY THAT WE ARE VERY

2759
01:37:04,418 --> 01:37:05,286
EXCITED ABOUT THE FUTURE.

2760
01:37:05,352 --> 01:37:05,786
THANK YOU VERY MUCH.

2761
01:37:05,853 --> 01:37:13,527
[Applause]

2762
01:37:13,594 --> 01:37:16,730
>> THANK YOU, Mr. MAGNUS.

2763
01:37:16,797 --> 01:37:18,032

WE'LL COME BACK, YOU SAID A

2764

01:37:18,098 --> 01:37:19,333

NUMBER OF THINGS THE CHAIR WOULD

2765

01:37:19,400 --> 01:37:20,868

LIKE TO HAVE YOU ELABORATE ON

2766

01:37:20,935 --> 01:37:22,770

BUT VERY INSPIRING, VERY

2767

01:37:22,836 --> 01:37:23,571

CHALLENGING WORDS.

2768

01:37:23,637 --> 01:37:25,806

COLONEL EILEEN COLLINS IS

2769

01:37:25,873 --> 01:37:26,774

RECOGNIZED FOR YOUR TESTIMONY

2770

01:37:26,840 --> 01:37:31,312

AND AGAIN THANK YOU FOR YOUR

2771

01:37:31,378 --> 01:37:31,545

CAREER.

2772

01:37:31,612 --> 01:37:33,047

EACH ONE OF YOU ON THIS PANEL

2773

01:37:33,113 --> 01:37:35,349

ARE INCREDIBLE AMERICANS.

2774

01:37:35,416 --> 01:37:36,650

>> IT'S ALL ABOUT THE

2775

01:37:36,717 --> 01:37:37,017

OPPORTUNITIES.

2776

01:37:37,084 --> 01:37:38,352

>> THANK YOU FOR YOUR

2777

01:37:38,419 --> 01:37:39,486

PARTICIPATION IN THE USER

2778

01:37:39,553 --> 01:37:44,124

ADVISORY GROUP FOR THIS COUNCIL.

2779

01:37:44,191 --> 01:37:45,025

>> THANK YOU,

2780

01:37:45,092 --> 01:37:45,459

Mr. VICE-PRESIDENT.

2781

01:37:45,526 --> 01:37:46,894

AND GOOD AFTERNOON.

2782

01:37:46,961 --> 01:37:49,330

ALSO DISTINGUISHED MEMBERS OF

2783

01:37:49,396 --> 01:37:50,197

THE NATIONAL SPACE COUNCIL,

2784

01:37:50,264 --> 01:37:51,265

THANK YOU FOR THE OPPORTUNITY TO

2785

01:37:51,332 --> 01:37:53,467

PRESENT TO YOU TODAY.

2786

01:37:53,534 --> 01:37:55,769

I'M EXCITED AS WE LOOK FORWARD

2787

01:37:55,836 --> 01:37:58,606

TO LAUNCHING AMERICAN ASTRONAUTS

2788

01:37:58,672 --> 01:38:00,808

AGAIN FROM INSIDE THE UNITED

2789

01:38:00,874 --> 01:38:03,043
STATES.

2790

01:38:03,110 --> 01:38:04,411
THIS SUMMER, PLANS ARE IN PLACE

2791

01:38:04,478 --> 01:38:06,647
FOR NASA IN COOPERATION WITH

2792

01:38:06,714 --> 01:38:08,949
SPACEX AND BOEING TO LAUNCH

2793

01:38:09,016 --> 01:38:10,050
ASTRONAUT CREWS TO THE

2794

01:38:10,117 --> 01:38:11,285
INTERNATIONAL SPACE STATION FOR

2795

01:38:11,352 --> 01:38:13,487
THE FIRST TIME.

2796

01:38:13,554 --> 01:38:15,389
WE WILL BE FREED FROM OUR

2797

01:38:15,456 --> 01:38:17,157
DEPENDENCE ON THE RUSSIAN SOYUZ.

2798

01:38:17,224 --> 01:38:27,067
[Applause]

2799

01:38:27,134 --> 01:38:30,838
I WILL DIGRESS THAT THE RUSSIANS

2800

01:38:30,904 --> 01:38:32,606
HAVE BEEN VERY GOOD PARTNERS

2801
01:38:32,673 --> 01:38:34,008
SINCE WE BEGAN WORKING WITH THEM

2802
01:38:34,074 --> 01:38:36,910
IN THE SHUTTLE MERE PROGRAM BACK

2803
01:38:36,977 --> 01:38:38,612
IN 1993 BUT USING ONLY ONE

2804
01:38:38,679 --> 01:38:40,381
LAUNCH VEHICLE IS A RISKY POLICY

2805
01:38:40,447 --> 01:38:43,083
FOR MAN MANY REASONS.

2806
01:38:43,150 --> 01:38:46,086
HAVING AID THAT, I BELIEVE OUR

2807
01:38:46,153 --> 01:38:47,988
FUTURE MODEL OF COMMERCIAL HUMAN

2808
01:38:48,055 --> 01:38:49,590
SPACE FLIGHT WILL BE SUCCESSFUL

2809
01:38:49,657 --> 01:38:52,126
IN ACCESSING OUR SPACE STATION

2810
01:38:52,192 --> 01:38:58,265
AS WELL AS REACHING FOR NEW

2811
01:38:58,332 --> 01:38:59,667
OPPORTUNITIES IN LOW-EARTH

2812
01:38:59,733 --> 01:38:59,867
ORBIT.

2813
01:38:59,933 --> 01:39:00,901

HOW CAN I SAY THAT?

2814

01:39:00,968 --> 01:39:02,403

BECAUSE IN ADDITION TO OUR

2815

01:39:02,469 --> 01:39:03,270

CURRENT SPACE STATION RESEARCH,

2816

01:39:03,337 --> 01:39:04,405

OTHER OPPORTUNITIES ARE

2817

01:39:04,471 --> 01:39:06,807

COMPELLING AND SOME EXAMPLES ARE

2818

01:39:06,874 --> 01:39:09,643

SPACE SOLAR POWER, IN-SPACE

2819

01:39:09,710 --> 01:39:12,680

MANUFACTURING, AND EVEN TOURISM.

2820

01:39:12,746 --> 01:39:14,581

EVENTUALLY I BELIEVE THESE

2821

01:39:14,648 --> 01:39:15,749

ACTIVITIES WILL BRING ECONOMIC

2822

01:39:15,816 --> 01:39:17,785

BENEFIT.

2823

01:39:17,851 --> 01:39:20,721

SPACE POLICY DIRECTIVE 2 HAS

2824

01:39:20,788 --> 01:39:23,023

EEXPEDITED OUR REGULATORY

2825

01:39:23,090 --> 01:39:23,324

PROCESS.

2826
01:39:23,390 --> 01:39:26,060
IN SPACE POLICY DIRECTIVE 3, IT

2827
01:39:26,126 --> 01:39:27,261
IS DIRECTING OUR SOLUTIONS TO

2828
01:39:27,328 --> 01:39:30,597
SPACE TRAFFIC MANAGEMENT, I

2829
01:39:30,664 --> 01:39:31,999
BELIEVE IN THE MOST EFFICIENT

2830
01:39:32,066 --> 01:39:33,934
WAY AND VERY IMPORTANTLY WITH

2831
01:39:34,001 --> 01:39:35,035
U.S. LEADERSHIP.

2832
01:39:35,102 --> 01:39:36,070
I URGE CONTINUED FOCUS IN THIS

2833
01:39:36,136 --> 01:39:38,639
AREA.

2834
01:39:38,706 --> 01:39:41,375
NOW, AS I'M OPTIMISTIC THAT THE

2835
01:39:41,442 --> 01:39:42,676
FIRST SEVERAL COMMERCIAL CREW

2836
01:39:42,743 --> 01:39:45,713
FLIGHTS WILL BE SAFE AND

2837
01:39:45,779 --> 01:39:46,880
SUCCESSFUL TO THE SPACE STATION,

2838
01:39:46,947 --> 01:39:48,782

I ALSO BELIEVE THAT DOWNTROD,

2839

01:39:48,849 --> 01:39:51,418

THERE WILL BE PERIODS OF STRONG

2840

01:39:51,485 --> 01:39:53,354

GROWTH AND WEAK GROWTH.

2841

01:39:53,420 --> 01:39:56,156

AND WE CANNOT EXPECT GROWTH IN

2842

01:39:56,223 --> 01:39:57,458

LOW-EARTH ORBIT TO BE AS

2843

01:39:57,524 --> 01:39:59,993

PREDICTED AND WE CANNOT FORCE

2844

01:40:00,060 --> 01:40:01,395

OPERATIONAL STATUS ON THESE

2845

01:40:01,462 --> 01:40:02,696

COMMERCIAL LAUNCH VEHICLES TOO

2846

01:40:02,763 --> 01:40:06,333

SOON.

2847

01:40:06,400 --> 01:40:08,268

WE SEE WHY AS WE OBSERVE THE

2848

01:40:08,335 --> 01:40:09,536

HISTORY OF THE SPACE SHUTTLE

2849

01:40:09,603 --> 01:40:09,770

PROGRAM.

2850

01:40:09,837 --> 01:40:11,872

ONE OF THE CAUSES OF BOTH THE

2851
01:40:11,939 --> 01:40:13,974
CHALLENGER AND COLUMBIA ACCIDENT

2852
01:40:14,041 --> 01:40:14,908
WAS THAT THEY WERE DECLARED

2853
01:40:14,975 --> 01:40:16,210
OPERATIONAL TOO SOON.

2854
01:40:16,276 --> 01:40:18,645
NASA, WHILE COLLABORATING WITH

2855
01:40:18,712 --> 01:40:21,248
COMMERCIAL PARTNERS, MUST ADAPT

2856
01:40:21,315 --> 01:40:22,249
FLIGHT SCHEDULE CONSISTENT WITH

2857
01:40:22,316 --> 01:40:26,587
THE AVAILABLE RESOURCES.

2858
01:40:26,653 --> 01:40:28,589
I WAS THE COMMANDER OF THE FIRST

2859
01:40:28,655 --> 01:40:30,190
FLIGHT AFTER THE SHUTTLE

2860
01:40:30,257 --> 01:40:32,426
COLUMBIA ACCIDENT.

2861
01:40:32,493 --> 01:40:35,362
I HAVE PERSONALLY GROWN AND

2862
01:40:35,429 --> 01:40:36,964
MATURED IN RETURN TO FLIGHT

2863
01:40:37,030 --> 01:40:37,264

ACTIVITIES.

2864

01:40:37,331 --> 01:40:38,966

PRIVATE INDUSTRY MUST LEARN FROM

2865

01:40:39,032 --> 01:40:42,569

NASA'S PAST EXPERIENCE.

2866

01:40:42,636 --> 01:40:44,304

EMPLOYEES OF COMMERCIAL

2867

01:40:44,371 --> 01:40:47,141

COMPANIES MOST ROUTINELY STUDY

2868

01:40:47,207 --> 01:40:48,609

THE LESSONS LEARNED FROM

2869

01:40:48,675 --> 01:40:49,243

CHALLENGER AND COLUMBIA AND OF

2870

01:40:49,309 --> 01:40:51,145

COURSE THIS APPLIES TO NASA ALSO

2871

01:40:51,211 --> 01:40:52,346

BUT I HAVE OBSERVED GOOD

2872

01:40:52,413 --> 01:40:53,080

INDICATIONS HERE.

2873

01:40:53,147 --> 01:40:54,248

MANY OF THE EMPLOYEES THAT I

2874

01:40:54,314 --> 01:40:58,185

HAVE TALKED WITH HAVE DONE THIS.

2875

01:40:58,252 --> 01:41:00,888

THE BEST PLACE TO START IS THE

2876
01:41:00,954 --> 01:41:05,225
EXCELLENT REPORT WRITTEN BY THE

2877
01:41:05,292 --> 01:41:08,028
COLUMBIA ACCIDENT INVESTIGATION

2878
01:41:08,095 --> 01:41:15,102
REPORT, KNOWN AS THE CAID

2879
01:41:15,169 --> 01:41:16,003
REPORT.

2880
01:41:16,069 --> 01:41:17,604
THOSE PARTS OF THE REPORT SHOULD

2881
01:41:17,671 --> 01:41:19,606
BE STUD ARRESTED BY ALL

2882
01:41:19,673 --> 01:41:23,043
EMPLOYEES OF OUR COMMERCIAL

2883
01:41:23,110 --> 01:41:24,778
PARTNERS, NOT JUST THE

2884
01:41:24,845 --> 01:41:25,579
MANAGEMENT.

2885
01:41:25,646 --> 01:41:26,580
WILL THE NEW SPACECRAFT WILL

2886
01:41:26,647 --> 01:41:28,282
SAFER THAN THE SHUTTLE?

2887
01:41:28,348 --> 01:41:28,449
YES.

2888
01:41:28,515 --> 01:41:30,918

THEY ARE DESIGNED TO REDUCE THE

2889

01:41:30,984 --> 01:41:35,155

INHERENT RISK.

2890

01:41:35,222 --> 01:41:37,124

THESE LAUNCH VEHICLES WILL HAVE

2891

01:41:37,191 --> 01:41:38,225

AN INJECTION SYSTEM THAT THE

2892

01:41:38,292 --> 01:41:39,359

SPACE SHUTTLE DID NOT HAVE.

2893

01:41:39,426 --> 01:41:41,361

THIS NEW SYSTEM COULD POSSIBLY

2894

01:41:41,428 --> 01:41:43,897

SAVE THE LIVES OF THE CREW IN A

2895

01:41:43,964 --> 01:41:46,400

FUTURE CHALLENGER-TYPE ACCIDENT.

2896

01:41:46,467 --> 01:41:48,001

ALSO BECAUSE THE CREW CAPSULE IS

2897

01:41:48,068 --> 01:41:51,138

ON TOP OF THE ROCKET, THAT

2898

01:41:51,205 --> 01:41:52,639

CONFIGURATION COULD PREVENT A

2899

01:41:52,706 --> 01:41:53,941

FUTURE COLUMBIA-TYPE ACCIDENT

2900

01:41:54,007 --> 01:41:55,142

BECAUSE THE HEAT SHIELD IS

2901
01:41:55,209 --> 01:41:58,178
PROTECTED.

2902
01:41:58,245 --> 01:42:00,113
BECAUSE OF THEIR DESIGN, THE NEW

2903
01:42:00,180 --> 01:42:00,714
SPACECRAFT AND LAUNCH VEHICLES

2904
01:42:00,781 --> 01:42:02,616
ARE INHERENTLY SAFER.

2905
01:42:02,683 --> 01:42:06,920
BUT THE RESIDUAL RISK MUST BE

2906
01:42:06,987 --> 01:42:07,855
CONSTANTLY MANAGED BY

2907
01:42:07,921 --> 01:42:09,356
LEADERSHIP, LEADERSHIP WHICH

2908
01:42:09,423 --> 01:42:12,392
MUST BE HUMBLE IN THEIR

2909
01:42:12,459 --> 01:42:13,093
OPEN-MINDEDNESS AND CONFIDENT IN

2910
01:42:13,160 --> 01:42:17,197
THE ABILITY OF THEIR PEOPLE.

2911
01:42:17,264 --> 01:42:18,599
MAKE NO MISTAKE, THIS IS A

2912
01:42:18,665 --> 01:42:22,336
SERIOUS BUSINESS AND A DANGEROUS

2913
01:42:22,402 --> 01:42:22,736

BUSINESS.

2914

01:42:22,803 --> 01:42:25,272

BUT IT CAN BE DONE SAFELY AND

2915

01:42:25,339 --> 01:42:26,073

SUCCESSFULLY AS LONG AS THE

2916

01:42:26,139 --> 01:42:28,675

PLANNERS AND OPERATORS REMAIN

2917

01:42:28,742 --> 01:42:29,276

FOCUSED, PROFESSIONAL AND

2918

01:42:29,343 --> 01:42:32,312

DISCIPLINED.

2919

01:42:32,379 --> 01:42:33,614

AS THE FLIGHT RATE OF COMMERCIAL

2920

01:42:33,680 --> 01:42:35,048

CREW INCREASES WHICH IT NEEDS TO

2921

01:42:35,115 --> 01:42:36,650

BE ECONOMICALLY SUSTAINABLE, WE

2922

01:42:36,717 --> 01:42:37,951

NEED TO BE SMART ABOUT WHEN WE

2923

01:42:38,018 --> 01:42:40,654

MOVE FROM A TEST VEHICLE TO AN

2924

01:42:40,721 --> 01:42:41,889

OPERATIONAL VEHICLE, AND THIS

2925

01:42:41,955 --> 01:42:43,690

INCLUDES THE FLIGHTS CARRYING

2926
01:42:43,757 --> 01:42:45,292
TOURISTS, SUBORBITAL AND

2927
01:42:45,359 --> 01:42:45,526
ORBITAL.

2928
01:42:45,592 --> 01:42:47,594
DO YOU THIS WITH THE GUIDANCE OF

2929
01:42:47,661 --> 01:42:52,466
YOUR FLIGHT TEST PLAN.

2930
01:42:52,533 --> 01:42:54,668
WHILE COST AND SCHEDULE ARE

2931
01:42:54,735 --> 01:42:55,869
ALWAYS OUR FOCUS AS THEY NEED TO

2932
01:42:55,936 --> 01:42:57,571
BE, WE DON'T WANT TO PUSH TOO

2933
01:42:57,638 --> 01:42:59,439
HARD AND TOO FAST NOT CONSISTENT

2934
01:42:59,506 --> 01:43:01,108
WITH OUR AVAILABLE RESOURCES.

2935
01:43:01,174 --> 01:43:02,242
FINALLY, HUMAN SPACE FLIGHT WILL

2936
01:43:02,309 --> 01:43:05,445
NEVER BE 100% SAFE.

2937
01:43:05,512 --> 01:43:06,847
THERE ALWAYS WILL BE RISK.

2938
01:43:06,914 --> 01:43:08,448

BUT GREATNESS WAS NEVER ACHIEVED

2939

01:43:08,515 --> 01:43:09,783

BY DOING THE SAME THINGS OVER

2940

01:43:09,850 --> 01:43:12,486

AND OVER AGAIN.

2941

01:43:12,553 --> 01:43:14,488

GREATNESS WAS NEVER ACHIEVED BY

2942

01:43:14,555 --> 01:43:15,322

AVOIDING RISK.

2943

01:43:15,389 --> 01:43:16,957

SO THIS YEAR THE UNITED STATES

2944

01:43:17,024 --> 01:43:18,025

WILL BE ACCOMPLISHING SOMETHING

2945

01:43:18,091 --> 01:43:21,361

NEW AND EXCITING, LAUNCHING OUR

2946

01:43:21,428 --> 01:43:24,765

ASTRONAUTS TO OUR SPACE STATION

2947

01:43:24,831 --> 01:43:25,766

IN NEXT GENERATION SPACECRAFT,

2948

01:43:25,832 --> 01:43:27,200

DEVELOPED BY GOVERNMENT INDUSTRY

2949

01:43:27,267 --> 01:43:29,202

WORKING TOGETHER IN A NEW AND

2950

01:43:29,269 --> 01:43:30,203

MORE EFFICIENT WAY.

2951
01:43:30,270 --> 01:43:32,139
I BELIEVE WE CAN AND WILL DO IT

2952
01:43:32,205 --> 01:43:32,339
SAFER.

2953
01:43:32,406 --> 01:43:32,873
THANK YOU.

2954
01:43:32,940 --> 01:43:40,614
[Applause]

2955
01:43:40,681 --> 01:43:41,848
>> THANK YOU, COLONEL COLLINS,

2956
01:43:41,915 --> 01:43:45,319
THANK YOU FOR THOSE INSPIRING

2957
01:43:45,385 --> 01:43:49,623
WORDS AND ADMONITIONS.

2958
01:43:49,690 --> 01:43:52,526
WE'LL COME BACK AND TALK TO YOU

2959
01:43:52,593 --> 01:43:53,460
ABOUT RISK MANAGEMENT WHEN WE

2960
01:43:53,527 --> 01:43:55,262
GET TO QUESTIONS.

2961
01:43:55,329 --> 01:44:00,100
GENERAL LES LILES IS RECOGNIZED.

2962
01:44:00,167 --> 01:44:01,301
THANK YOU FOR BEING HERE AND

2963
01:44:01,368 --> 01:44:02,202

THANK YOU FOR TAKING THE

2964

01:44:02,269 --> 01:44:02,803

LEADERSHIP ROLE.

2965

01:44:02,869 --> 01:44:03,537

>> THANK YOU, SIR.

2966

01:44:03,604 --> 01:44:05,939

THANK YOU FOR YOUR LEADERSHIP.

2967

01:44:06,006 --> 01:44:07,140

VICE-PRESIDENT PENCE SAID

2968

01:44:07,207 --> 01:44:09,176

THERE'S NO LESSON LEARNED, NEVER

2969

01:44:09,242 --> 01:44:10,978

FOLLOWING AN ASTRONAUT WHEN

2970

01:44:11,044 --> 01:44:12,012

YOU'RE GIVING A PRESENTATION,

2971

01:44:12,079 --> 01:44:13,113

LET ALONE TWO OF THEM.

2972

01:44:13,180 --> 01:44:14,314

I HAVE THAT DUBIOUS HONOR RIGHT

2973

01:44:14,381 --> 01:44:14,615

NOW.

2974

01:44:14,681 --> 01:44:16,650

IT'S JUST GREAT TO BE ON THIS

2975

01:44:16,717 --> 01:44:18,151

PARTICULAR PANEL.

2976
01:44:18,218 --> 01:44:20,320
VICE-PRESIDENT PENCE, MEMBERS OF

2977
01:44:20,387 --> 01:44:21,455
THE NATIONAL SPACE COUNCIL, I'M

2978
01:44:21,521 --> 01:44:23,056
HONORED TO BE PART OF THIS

2979
01:44:23,123 --> 01:44:24,591
HISTORIC MOMENT AS THE UNITED

2980
01:44:24,658 --> 01:44:27,928
STATES CONTINUES TO RETURN TO

2981
01:44:27,995 --> 01:44:30,230
SPACE PREEMINENCE AND BEGINS AN

2982
01:44:30,297 --> 01:44:31,598
AGGRESSIVE NEW JOURNEY TO

2983
01:44:31,665 --> 01:44:33,834
INSPIRE, TO INNOVATE AND TO

2984
01:44:33,900 --> 01:44:34,101
DISCOVER.

2985
01:44:34,167 --> 01:44:35,769
SOME IN THE AUDIENCE MAY

2986
01:44:35,836 --> 01:44:36,670
RECOGNIZE THAT LAST STATEMENT

2987
01:44:36,737 --> 01:44:39,439
WAS A TITLE OF A JUNE 2004

2988
01:44:39,506 --> 01:44:41,375

REPORT OF THE PRESIDENT'S

2989

01:44:41,441 --> 01:44:43,910

COMMISSION ON IMPLEMENTATION OF

2990

01:44:43,977 --> 01:44:45,612

THE UNITED STATES SPACE

2991

01:44:45,679 --> 01:44:46,046

EXPLORATION POLICY.

2992

01:44:46,113 --> 01:44:47,748

THAT REPORT ALSO HAD A SUBTITLE

2993

01:44:47,814 --> 01:44:50,684

WHICH WAS MOON, MARS AND BEYOND.

2994

01:44:50,751 --> 01:44:51,685

I HAD THE PRIVILEGE OF BEING A

2995

01:44:51,752 --> 01:44:54,354

MEMBER OF THAT COMMISSION WHICH

2996

01:44:54,421 --> 01:44:57,224

WAS CREATED BY PRESIDENT GEORGE

2997

01:44:57,290 --> 01:45:01,728

W. BUSH IN JANUARY 2004 AND LED

2998

01:45:01,795 --> 01:45:03,130

BY FORMER SECRETARY OF THE FORCE

2999

01:45:03,196 --> 01:45:04,197

PETE ALDRIDGE.

3000

01:45:04,264 --> 01:45:06,266

OTHERS INCLUDED FORMER

3001

01:45:06,333 --> 01:45:07,968

CONGRESSMAN BOB WALKER,

3002

01:45:08,035 --> 01:45:10,003

Dr. NEIL DEGRASSI TYSON, THE

3003

01:45:10,070 --> 01:45:16,610

FORMER CEO OF HEWLETT-PACKARD

3004

01:45:16,677 --> 01:45:17,711

AND SEVERAL NOTED SPACE

3005

01:45:17,778 --> 01:45:19,346

SCIENTISTS AND EXPERTS.

3006

01:45:19,413 --> 01:45:25,886

IN CONTEMPLATING READY TO FLY,

3007

01:45:25,952 --> 01:45:26,987

REVISITING THE RECOMMENDATIONS

3008

01:45:27,054 --> 01:45:28,288

IN THE 2004 REPORT, ALL OF WHICH

3009

01:45:28,355 --> 01:45:30,891

HAVE BEEN EMBRACED IN FULL OR

3010

01:45:30,957 --> 01:45:33,727

PARTIALLY BY NASA OVER THE

3011

01:45:33,794 --> 01:45:34,928

INTERVENING YEARS AND THEY'RE

3012

01:45:34,995 --> 01:45:36,263

CERTAINLY CODIFIED BY THE

3013

01:45:36,329 --> 01:45:38,865

VISIONARY NEW SPACE POLICY AND

3014

01:45:38,932 --> 01:45:40,367

DIRECTIVES, SPACE POLICY ONE,

3015

01:45:40,434 --> 01:45:42,169

TWO, THREE, FOUR FROM YOU AND

3016

01:45:42,235 --> 01:45:44,504

FROM THE PRESIDENT.

3017

01:45:44,571 --> 01:45:47,708

THE TRANSMITTAL 2004 REPORT BY

3018

01:45:47,774 --> 01:45:49,109

THE MOON, MARS AND BEYOND

3019

01:45:49,176 --> 01:45:50,811

COMMISSION STATED, QUOTE: A

3020

01:45:50,877 --> 01:45:52,446

JOURNEY OF EXPLORATION WILL

3021

01:45:52,512 --> 01:45:53,947

SUSTAIN VITAL NATIONAL

3022

01:45:54,014 --> 01:45:55,582

OBJECTIVES HERE ON EARTH.

3023

01:45:55,649 --> 01:45:57,384

IT WILL PROVIDE INSPIRATION FOR

3024

01:45:57,451 --> 01:46:02,122

OUR YOUTH TO INTERENTER ENTER TL

3025

01:46:02,189 --> 01:46:02,956

FIELDS, IT WILL GENERATE

3026
01:46:03,023 --> 01:46:05,025
ECONOMIC BENEFIT TO OUR NATION

3027
01:46:05,092 --> 01:46:06,326
THROUGH THE CREATION OF

3028
01:46:06,393 --> 01:46:07,227
ADDITIONAL TECHNICAL JOBS, IT

3029
01:46:07,294 --> 01:46:08,261
WILL IMPROVE THE COMPETITIVENESS

3030
01:46:08,328 --> 01:46:09,663
OF OUR INDUSTRIAL BASE IN THE

3031
01:46:09,730 --> 01:46:12,566
WORLD MARKETPLACE, IT WILL

3032
01:46:12,632 --> 01:46:14,301
PROVIDE CLEAR RECOGNITION OF

3033
01:46:14,367 --> 01:46:15,802
AMERICA'S LEADERSHIP AND IMPROVE

3034
01:46:15,869 --> 01:46:17,404
PROSPERITY AND QUALITY OF LIFE

3035
01:46:17,471 --> 01:46:21,141
FOR ALL AMERICANS, UNQUOTE.

3036
01:46:21,208 --> 01:46:24,044
I THINK BACK SIMILAR TO TODAY ON

3037
01:46:24,111 --> 01:46:25,579
NEW U.S. SPACE AGENDA ADVANCED

3038
01:46:25,645 --> 01:46:27,047

BY OUR SPACE POLICY DIRECTIVES

3039

01:46:27,114 --> 01:46:28,415

AND THE NEW GOAL YOU HAVE GIVEN

3040

01:46:28,482 --> 01:46:30,417

US TODAY WILL SIGNIFICANTLY HELP

3041

01:46:30,484 --> 01:46:33,653

THE UNITED STATES PROTECT ITS

3042

01:46:33,720 --> 01:46:35,188

TECHNOLOGICAL LEADERSHIP, ITS

3043

01:46:35,255 --> 01:46:38,058

ECONOMIC VITALITY AND SECURITY.

3044

01:46:38,125 --> 01:46:39,493

THE MOON, MARS AND BEYOND

3045

01:46:39,559 --> 01:46:40,994

COMMISSION OF 2004 MADE ONE

3046

01:46:41,061 --> 01:46:42,763

MAJOR RECOMMENDATION THAT THE

3047

01:46:42,829 --> 01:46:44,698

UNITED STATES SPACE EXPLORATION

3048

01:46:44,765 --> 01:46:48,435

PROGRAM SHOULD BE MANAGED AS A

3049

01:46:48,502 --> 01:46:49,269

SIGNIFICANT NATIONAL PRIORITY,

3050

01:46:49,336 --> 01:46:50,937

WITH CLEAR COMMITMENT AND

3051

01:46:51,004 --> 01:46:53,173

LEADERSHIP FROM THE PRESIDENT,

3052

01:46:53,240 --> 01:46:55,809

FROM THE CONGRESS, AND FROM THE

3053

01:46:55,876 --> 01:46:56,877

AMERICAN PEOPLE.

3054

01:46:56,943 --> 01:46:59,279

THE COMMISSION ADVISED THAT TO

3055

01:46:59,346 --> 01:47:00,714

ENSURE SUCH COMMITMENT, THE U.S.

3056

01:47:00,781 --> 01:47:02,149

SPACE EXPLORATION PROGRAM MUST

3057

01:47:02,215 --> 01:47:04,017

BE SUSTAINABLE, IT MUST BE

3058

01:47:04,084 --> 01:47:05,218

AFFORDABLE, AND IT MUST BE

3059

01:47:05,285 --> 01:47:07,220

CREDIBLE.

3060

01:47:07,287 --> 01:47:10,991

AND TO DEFINE, IT STATED THAT

3061

01:47:11,057 --> 01:47:12,392

SUSTAINABLE MEANS OVER MULTIPLE

3062

01:47:12,459 --> 01:47:13,860

GOVERNMENT CYCLES NECESSITATING

3063

01:47:13,927 --> 01:47:15,929

THAT ITS VALUE IS ALWAYS CLEARLY

3064

01:47:15,996 --> 01:47:17,230

DEMONSTRATED AND ARTICULATED

3065

01:47:17,297 --> 01:47:18,532

PARTICULARLY TO THE PUBLIC.

3066

01:47:18,598 --> 01:47:20,167

IT MUST BE SUSTAINABLE BY HAVING

3067

01:47:20,233 --> 01:47:22,736

A CLEAR SET OF OBJECTIVES AND

3068

01:47:22,803 --> 01:47:24,671

GOALS, SUSTAINABLE BY HAVING AN

3069

01:47:24,738 --> 01:47:27,107

ARCHITECTURE THAT IS SCALABLE TO

3070

01:47:27,174 --> 01:47:29,209

ADDRESS ALL ELEMENTS OF

3071

01:47:29,276 --> 01:47:30,443

EXPLORATION FROM THE MOON TO

3072

01:47:30,510 --> 01:47:33,246

MARS AND BEYOND.

3073

01:47:33,313 --> 01:47:35,248

AFFORDABLE BY STAYING ON COST

3074

01:47:35,315 --> 01:47:38,185

AND SCHEDULE AND WE ARTICULATED

3075

01:47:38,251 --> 01:47:39,119

A NEW TERMINOLOGY.

3076

01:47:39,186 --> 01:47:40,187

WE STATED THAT THE PROGRAM

3077

01:47:40,253 --> 01:47:42,389

SHOULD BE FLEXIBLE ENOUGH TO

3078

01:47:42,455 --> 01:47:45,192

ALLOW A GO AS YOU PAY SORT OF

3079

01:47:45,258 --> 01:47:45,992

APPROACH.

3080

01:47:46,059 --> 01:47:49,396

THAT IS IS, IF BUDGETS DO

3081

01:47:49,462 --> 01:47:51,431

FLUBBINGIVE FLUCTUATE, WE WOULD

3082

01:47:51,498 --> 01:47:53,800

NEVER STRAY FROM OUR GOALS AND

3083

01:47:53,867 --> 01:47:54,801

OBJECTIVES AND WE WOULD ALWAYS

3084

01:47:54,868 --> 01:47:56,069

MAKE PROGRESS REGARDLESS OF WHAT

3085

01:47:56,136 --> 01:47:59,606

THE BUDGET FLUXATIONS MAY SAY.

3086

01:47:59,673 --> 01:48:04,778

THE PROGRAM MUST BE CREDIBLE,

3087

01:48:04,845 --> 01:48:06,012

DIVERSE, INTERNATIONAL PARTNERS,

3088

01:48:06,079 --> 01:48:07,647

SPACE INNOVATORS BOTH FOR SPACE

3089

01:48:07,714 --> 01:48:08,448

OPERATIONS AND SPACE SERVICES

3090

01:48:08,515 --> 01:48:11,051

AND FINALLY, CREDIBLE BY

3091

01:48:11,117 --> 01:48:12,886

EXHIBITING AND HAVING A

3092

01:48:12,953 --> 01:48:16,590

MANAGEMENT STRUCTURE WITH CLEAR

3093

01:48:16,656 --> 01:48:17,891

STREAMLINED AUTHORITIES AND

3094

01:48:17,958 --> 01:48:19,392

CLEAR ACCOUNTABILITIES.

3095

01:48:19,459 --> 01:48:21,828

THESE THREE PRINCIPLES:

3096

01:48:21,895 --> 01:48:25,866

SUSTAINABILITY, AFFORDABILITY

3097

01:48:25,932 --> 01:48:28,268

AND CREDIBILITY ARE MUCH

3098

01:48:28,335 --> 01:48:30,070

IMPORTANT TODAY AND REALLY APPLY

3099

01:48:30,136 --> 01:48:31,438

TO CURRENT SPACE EXPLORATION,

3100

01:48:31,504 --> 01:48:33,506

VISION AND POLICY.

3101
01:48:33,573 --> 01:48:34,207
Mr. VICE-PRESIDENT, ALL OF

3102
01:48:34,274 --> 01:48:37,310
THEM WERE ADDRESSED IN SOME FORM

3103
01:48:37,377 --> 01:48:40,647
OR ANOTHER BY THE NEW BOLD SPACE

3104
01:48:40,714 --> 01:48:42,182
POLICY YOU CLEARLY ARTICULATED

3105
01:48:42,249 --> 01:48:43,250
TOUTS THIS MORNING.

3106
01:48:43,316 --> 01:48:44,684
WHILE THE MOON, MARS AND BEYOND

3107
01:48:44,751 --> 01:48:48,088
COMMISSION DID NOT FOCUS ON

3108
01:48:48,154 --> 01:48:48,588
NATIONAL SECURITY SPACE

3109
01:48:48,655 --> 01:48:50,891
INITIATIVES MOST OF THE

3110
01:48:50,957 --> 01:48:54,327
RECOMMENDATIONS WERE EQUAL TO

3111
01:48:54,394 --> 01:48:57,931
THE SPACE ENTERPRISE.

3112
01:48:57,998 --> 01:48:59,065
NATIONAL INTELLIGENCE COMMITTEE,

3113
01:48:59,132 --> 01:49:00,166

CIVIL AND COMMERCIAL SPACE.

3114

01:49:00,233 --> 01:49:01,668
IN 2007 A DIFFERENT COMMISSION,

3115

01:49:01,735 --> 01:49:05,138
THE ALLARD COMMISSION NAMED

3116

01:49:05,205 --> 01:49:05,739
AFTER FORMER COLORADO SENATOR

3117

01:49:05,805 --> 01:49:07,007
WAYNE ALLARD WAS ESTABLISHED TO

3118

01:49:07,073 --> 01:49:08,608
MAKE AN INDEPENDENT ASSESSMENT

3119

01:49:08,675 --> 01:49:10,410
OF THE ORGANIZATION AND

3120

01:49:10,477 --> 01:49:12,112
MANAGEMENT OF NATIONAL SECURITY

3121

01:49:12,178 --> 01:49:12,846
SPACE PROGRAMS.

3122

01:49:12,913 --> 01:49:15,916
TO SUM UP VERY QUICKLY, THE

3123

01:49:15,982 --> 01:49:17,350
COMMISSION OF 2007 MADE A COUPLE

3124

01:49:17,417 --> 01:49:19,452
OF MAJOR RECOMMENDATIONS.

3125

01:49:19,519 --> 01:49:20,854
NUMBER ONE WAS THAT WE NEEDED TO

3126
01:49:20,921 --> 01:49:23,189
RETURN TO HAVING A NATIONAL

3127
01:49:23,256 --> 01:49:23,690
SPACE COUNCIL.

3128
01:49:23,757 --> 01:49:24,991
OBVIOUSLY THAT HAS BEEN DONE.

3129
01:49:25,058 --> 01:49:26,393
IT ALSO MAKES A RECOMMENDATION

3130
01:49:26,459 --> 01:49:29,162
THAT WE SHOULD HAVE A COHESIVE

3131
01:49:29,229 --> 01:49:30,664
VERY STRONG NATIONAL SECURITY

3132
01:49:30,730 --> 01:49:32,966
SET OF SPACE ACTIVITIES IN

3133
01:49:33,033 --> 01:49:33,266
LEADERSHIP.

3134
01:49:33,333 --> 01:49:35,001
THAT TO ME IS WHAT YOU HAVE DONE

3135
01:49:35,068 --> 01:49:41,308
WITH THE NEW SPACE FORCE.

3136
01:49:41,374 --> 01:49:42,642
WE ARE SETTING THE STAGE FOR

3137
01:49:42,709 --> 01:49:44,044
EVERYTHING WE NEED TO DO IN THE

3138
01:49:44,110 --> 01:49:44,277

FUTURE.

3139

01:49:44,344 --> 01:49:46,079

THESE PREVIOUS COMMISSIONS ARE

3140

01:49:46,146 --> 01:49:47,380

PERHAPS EXAMPLESSOR OF THE OLD

3141

01:49:47,447 --> 01:49:50,083

SAYING THE PAST IS PROLONGED

3142

01:49:50,150 --> 01:49:51,685

BUT TODAY WE CLEARLY HAVE THE

3143

01:49:51,751 --> 01:49:53,219

RIGHT POLICIES, WE HAVE THE

3144

01:49:53,286 --> 01:49:54,120

RIGHT ORGANIZATIONAL STRUCTURE,

3145

01:49:54,187 --> 01:49:56,723

WE HAVE THE RIGHT LEADERSHIP, WE

3146

01:49:56,790 --> 01:49:59,159

HAVE THE RIGHT GOALS AND AS YOU

3147

01:49:59,225 --> 01:50:01,728

SEE FROM THE PEOPLE BESIDE ME,

3148

01:50:01,795 --> 01:50:03,596

WE HAVE THE RIGHT PEOPLE

3149

01:50:03,663 --> 01:50:05,598

INVOLVED AND I CLEARLY CAN SAY

3150

01:50:05,665 --> 01:50:07,133

WITHOUT ANY PUN INTENDED, ALL

3151

01:50:07,200 --> 01:50:08,034

THE STARS ARE ALIGNED.

3152

01:50:08,101 --> 01:50:10,136

FOR ME, Mr. VICE-PRESIDENT, AS

3153

01:50:10,203 --> 01:50:13,573

A MEMBER OF BOTH THE MOON, MARS

3154

01:50:13,640 --> 01:50:15,075

AND BEYOND COMMISSION AND THE

3155

01:50:15,141 --> 01:50:16,676

ALLARD COMMISSION, I CAN TELL

3156

01:50:16,743 --> 01:50:19,612

YOU I'M EXCITED, I'M

3157

01:50:19,679 --> 01:50:20,080

ENTHUSIASTIC, I'M VERY

3158

01:50:20,146 --> 01:50:21,314

OPTIMISTIC ABOUT THE FUTURE OF

3159

01:50:21,381 --> 01:50:26,152

THE U.S. SPACE ENTERPRISE AND IN

3160

01:50:26,219 --> 01:50:29,522

MY OPINION, WE ARE READY TO FLY.

3161

01:50:29,589 --> 01:50:29,923

>> THANK YOU.

3162

01:50:29,990 --> 01:50:34,327

[Applause]

3163

01:50:34,394 --> 01:50:36,596

>> THANK YOU, GENERAL.

3164

01:50:36,663 --> 01:50:39,332

THANK YOU FOR THOSE GREAT

3165

01:50:39,399 --> 01:50:39,632

REMARKS.

3166

01:50:39,699 --> 01:50:41,368

I WANT TO THANK THE ENTIRE

3167

01:50:41,434 --> 01:50:41,568

PANEL.

3168

01:50:41,634 --> 01:50:43,370

WE'RE GOING TO ROLL THROUGH SOME

3169

01:50:43,436 --> 01:50:46,606

QUESTIONS FAIRLY QUICKLY, BUT A

3170

01:50:46,673 --> 01:50:50,110

COUPLE OF QUESTIONS INITIALLY

3171

01:50:50,176 --> 01:50:51,211

BASED ON YOUR TESTIMONY.

3172

01:50:51,277 --> 01:50:53,813

I'LL GO IN THE REVERSE ORDER,

3173

01:50:53,880 --> 01:50:56,649

GENERAL LILES, SO THE MOON, MARS

3174

01:50:56,716 --> 01:50:58,752

AND BEYOND COMMISSION 2004, MANY

3175

01:50:58,818 --> 01:51:00,120

OF THE RECOMMENDATIONS PRESIDENT

3176
01:51:00,186 --> 01:51:01,588
TRUMP HAS PUT INTO EFFECT

3177
01:51:01,654 --> 01:51:06,926
THROUGH SPACE POLICY DIRECTIVES,

3178
01:51:06,993 --> 01:51:10,130
WHAT DO YOU THINK IS CATALYZING

3179
01:51:10,196 --> 01:51:12,399
AND I KNOW HOW GRATEFUL YOU ARE

3180
01:51:12,465 --> 01:51:14,934
FOR THE LEADERSHIP THE PRESIDENT

3181
01:51:15,001 --> 01:51:15,668
AND THE ADMINISTRATION HAVE

3182
01:51:15,735 --> 01:51:22,242
BROUGHT TO THIS BUT THE 15-YEAR

3183
01:51:22,308 --> 01:51:26,112
GAP, DO YOU SENSE THAT OUR

3184
01:51:26,179 --> 01:51:26,679
BURGEONING COMMERCIAL SPACE

3185
01:51:26,746 --> 01:51:29,682
INDUSTRY WHICH WAS NOT IN

3186
01:51:29,749 --> 01:51:31,651
EVIDENCE 15 YEARS AGO, WE HAVE A

3187
01:51:31,718 --> 01:51:33,253
SENSE OF THE ENTHUSIASM ALL

3188
01:51:33,319 --> 01:51:34,687

ACROSS THE BOARD AND STIPULATING

3189

01:51:34,754 --> 01:51:37,190

THAT THE PRESIDENT'S CALL FOR

3190

01:51:37,257 --> 01:51:38,091

RENEWED AMERICAN LEADERSHIP IN

3191

01:51:38,158 --> 01:51:39,292

SPACE HAS MADE A DIFFERENCE,

3192

01:51:39,359 --> 01:51:41,928

WHAT ELSE DO YOU THINK IS

3193

01:51:41,995 --> 01:51:43,630

DIFFERENT TODAY THAN 15 YEARS

3194

01:51:43,696 --> 01:51:45,231

AGO WHEN MANY OF THESE SAME

3195

01:51:45,298 --> 01:51:49,369

IDEAS CAME FORWARD BUT WEREN'T

3196

01:51:49,436 --> 01:51:49,869

ACTED UPON.

3197

01:51:49,936 --> 01:51:52,205

>> VICE-PRESIDENT PENCE, CLEARLY

3198

01:51:52,272 --> 01:51:53,673

I CAN'T DISCOUNT LEADERSHIP AND

3199

01:51:53,740 --> 01:51:55,408

HOW MUCH THAT REALLY HAS MADE A

3200

01:51:55,475 --> 01:51:57,010

DIFFERENCE RELATIVE TO WHERE WE

3201
01:51:57,077 --> 01:51:57,243
ARE.

3202
01:51:57,310 --> 01:51:58,244
BUT I GUESS PROBABLY ANOTHER

3203
01:51:58,311 --> 01:52:02,248
STRONG WORD IS COMMITMENT.

3204
01:52:02,315 --> 01:52:04,784
THAT HAVE BEEN SEVERAL

3205
01:52:04,851 --> 01:52:06,586
ITERATIONS.

3206
01:52:06,653 --> 01:52:08,688
MANY PANEL MEMBERS AND COUNCIL

3207
01:52:08,755 --> 01:52:12,025
KNOW, THERE HAVE BEEN SEVERAL

3208
01:52:12,092 --> 01:52:13,560
ITERATIONS STARTING COMMERCIAL

3209
01:52:13,626 --> 01:52:14,661
SPACE ACTIVITIES.

3210
01:52:14,727 --> 01:52:16,329
THEY FALTERED IN SOME FORM OR

3211
01:52:16,396 --> 01:52:17,664
ANOTHER BECAUSE OF LACK OF

3212
01:52:17,730 --> 01:52:18,364
COMMITMENT INCLUDING WITH

3213
01:52:18,431 --> 01:52:18,865

RESOURCES.

3214

01:52:18,932 --> 01:52:20,300

THE TECHNOLOGICAL ASPECT HAS

3215

01:52:20,366 --> 01:52:21,601

CERTAINLY GROWN SIGNIFICANTLY

3216

01:52:21,668 --> 01:52:23,803

BUT WE'VE ALWAYS BEEN AS

3217

01:52:23,870 --> 01:52:24,737

SOMEBODY SAID EARLIER ON THE

3218

01:52:24,804 --> 01:52:26,306

PRECIPICE OF HAVING THAT ABILITY

3219

01:52:26,372 --> 01:52:29,442

TO TAKE ADVANTAGE OF THE GREAT

3220

01:52:29,509 --> 01:52:30,243

TECHNOLOGY HERE IN THE UNITED

3221

01:52:30,310 --> 01:52:30,477

STATES.

3222

01:52:30,543 --> 01:52:34,347

TO ME, THE BIG DIFFERENCE IS

3223

01:52:34,414 --> 01:52:34,914

FULL COMMITMENT OF EVERYBODY

3224

01:52:34,981 --> 01:52:35,782

THAT REALLY THIS IS SOMETHING WE

3225

01:52:35,849 --> 01:52:36,649

NEED TO DO.

3226

01:52:36,716 --> 01:52:38,885

I CAN'T DISCOUNT THE THREAT,

3227

01:52:38,952 --> 01:52:40,320

OBVIOUSLY, PERHAPS THAT'S AN

3228

01:52:40,386 --> 01:52:42,222

UNDERLYING CATALYST THAT REALLY

3229

01:52:42,288 --> 01:52:44,190

HAS HELPED STEP UP THE GAME, IF

3230

01:52:44,257 --> 01:52:45,125

YOU WILL BUT THE LEADERSHIP AND

3231

01:52:45,191 --> 01:52:47,861

THE COMMITMENT HAS REALLY MADE

3232

01:52:47,927 --> 01:52:48,228

THE DIFFERENCE.

3233

01:52:48,294 --> 01:52:48,695

>> THANK YOU.

3234

01:52:48,761 --> 01:52:52,098

NAUT SANDY MAGNUS, YOU MADE THE

3235

01:52:52,165 --> 01:52:55,735

COMMENT THAT IN THE INTERVENING

3236

01:52:55,802 --> 01:52:59,839

EIGHT YEARS, WE LOST A LOT, INCG

3237

01:52:59,906 --> 01:53:00,273

CRITICAL PERSONNEL.

3238

01:53:00,340 --> 01:53:02,275

WITH THE GOAL THE PRESIDENT PUT

3239

01:53:02,342 --> 01:53:05,712

FORWARD TODAY, CAN YOU EXPRESS

3240

01:53:05,778 --> 01:53:08,314

WHAT IS YOUR LEVEL OF CONFIDENCE

3241

01:53:08,381 --> 01:53:11,251

ABOUT THE ABILITY OF NASA AND

3242

01:53:11,317 --> 01:53:13,486

OUR CONTRACTING COMMUNITY TO

3243

01:53:13,553 --> 01:53:15,088

ATTRACT THE PERSONNEL TO MEET

3244

01:53:15,155 --> 01:53:20,226

THIS OBJECTIVE AND BEYOND.

3245

01:53:20,293 --> 01:53:22,162

CAN WE CATCH UP?

3246

01:53:22,228 --> 01:53:23,329

>> THAT'S A GOOD QUESTION.

3247

01:53:23,396 --> 01:53:25,398

I THINK THERE'S DIFFERENT LAYERS

3248

01:53:25,465 --> 01:53:26,399

OF PROBLEMS TO TACKLE BUT I

3249

01:53:26,466 --> 01:53:27,400

THINK IT'S GOOD, FIRST OF ALL TO

3250

01:53:27,467 --> 01:53:29,102

HAVE A DEFINITE OKAY, NO

3251
01:53:29,169 --> 01:53:30,436
KIDDING, THIS IS WHAT WE SHOULD

3252
01:53:30,503 --> 01:53:33,373
BE DOING AND THAT THE SPACE

3253
01:53:33,439 --> 01:53:34,807
COMMUNITY IS VERY GOOD AT

3254
01:53:34,874 --> 01:53:35,775
SOLVING COMPLEX PROBLEMS.

3255
01:53:35,842 --> 01:53:36,743
THAT'S WHAT WE DO.

3256
01:53:36,809 --> 01:53:38,211
I THINK THERE ARE DIFFERENT

3257
01:53:38,278 --> 01:53:39,212
LAYERS TO THIS PARTICULAR

3258
01:53:39,279 --> 01:53:41,314
CHALLENGE THAT HAVE TO BE

3259
01:53:41,381 --> 01:53:42,315
ACCESSED AND THERE'S THE ONE

3260
01:53:42,382 --> 01:53:44,784
THAT I THINK IS MOST IMPORTANT

3261
01:53:44,851 --> 01:53:46,986
IS THE TECHNOLOGICAL LAYER TO

3262
01:53:47,053 --> 01:53:48,788
MAKE SURE AS WE LOOK AT THESE

3263
01:53:48,855 --> 01:53:49,889

SYSTEMS AND HOW WE CAN ACHIEVE

3264

01:53:49,956 --> 01:53:51,424

THE GOAL THAT YOU SET FORTH

3265

01:53:51,491 --> 01:53:53,726

TODAY THAT WE MAKE SURE WE

3266

01:53:53,793 --> 01:53:55,962

TACKLE THE TECHNOLOGY PART

3267

01:53:56,029 --> 01:53:57,163

INTELLIGENTLY AND SMARTLY AND

3268

01:53:57,230 --> 01:53:59,098

SEVERAL TIMES PEOPLE HAVE

3269

01:53:59,165 --> 01:54:00,099

MENTIONED SMART FAILURES, I

3270

01:54:00,166 --> 01:54:00,900

THINK THAT'S REALLY KEY.

3271

01:54:00,967 --> 01:54:02,001

I THINK THE COMMUNITY HAS TO

3272

01:54:02,068 --> 01:54:03,636

FEEL COMFORTABLE WITH BEING ABLE

3273

01:54:03,703 --> 01:54:04,037

TO FAIL.

3274

01:54:04,103 --> 01:54:05,672

WE HAVE IN THE SPACE COMMUNITY,

3275

01:54:05,738 --> 01:54:07,774

WHAT WE DO IS REALLY HARD AND

3276

01:54:07,840 --> 01:54:09,776

OVER THE YEARS, PEOPLE WORRY

3277

01:54:09,842 --> 01:54:10,810

ABOUT FAILING BECAUSE THEY'RE

3278

01:54:10,877 --> 01:54:11,711

WORRIED ABOUT THE COMMITMENT TO

3279

01:54:11,778 --> 01:54:14,714

THE PROGRAM IN THE LONG TERM.

3280

01:54:14,781 --> 01:54:15,248

KNOWING THERE'S LONG-TERM

3281

01:54:15,315 --> 01:54:16,349

COMMITMENT TO THE PROGRAM WILL

3282

01:54:16,416 --> 01:54:18,184

OPEN UP THE APERTURE FOR FAILURE

3283

01:54:18,251 --> 01:54:18,952

A LITTLE BIT INTELLIGENTLY.

3284

01:54:19,018 --> 01:54:21,187

I THINK THE OTHER PART OF THE

3285

01:54:21,254 --> 01:54:23,056

PROBLEM THAT HAS TO BE TACKLED

3286

01:54:23,122 --> 01:54:24,824

IS HOW WE MANAGE THESE KINDS OF

3287

01:54:24,891 --> 01:54:25,825

PROGRAMS AND HOW WE CONTINUE TO

3288

01:54:25,892 --> 01:54:27,460

WORK THROUGH THE BUREAUCRATIC

3289

01:54:27,527 --> 01:54:29,963

ISSUES THAT YOU SO ADEQUATELY

3290

01:54:30,029 --> 01:54:30,830

ADDRESSED EARLIER.

3291

01:54:30,897 --> 01:54:32,265

I THINK OUR COMMUNITY IS UP FOR

3292

01:54:32,332 --> 01:54:33,566

IT.

3293

01:54:33,633 --> 01:54:35,435

I THINK IT WILL BE CHALLENGING

3294

01:54:35,501 --> 01:54:38,338

AND I LOOK FORWARD TO HEARING

3295

01:54:38,404 --> 01:54:39,839

SOME OF THE TECHNOLOGY PARTS AS

3296

01:54:39,906 --> 01:54:41,674

WE GO FORWARD BECAUSE WE WANT TO

3297

01:54:41,741 --> 01:54:42,775

MAKE SURE THAT WE'RE DOING IT

3298

01:54:42,842 --> 01:54:46,246

SAFELY AS WELL.

3299

01:54:46,312 --> 01:54:46,713

>> THANK YOU.

3300

01:54:46,779 --> 01:54:47,647

GREAT INSIGHT.

3301
01:54:47,714 --> 01:54:50,083
I JUST THOUGHT THAT WHOLE NOTION

3302
01:54:50,149 --> 01:54:50,850
OF HUMAN CAPITAL.

3303
01:54:50,917 --> 01:54:54,087
BUT I LOVE YOUR COMMENT ABOUT

3304
01:54:54,153 --> 01:54:57,257
THIS COMMUNITY, THAT THEY'RE

3305
01:54:57,323 --> 01:54:58,224
PROBLEM SOLVERS.

3306
01:54:58,291 --> 01:54:59,826
NOW WE HAVE A GOAL AND WE CAN

3307
01:54:59,892 --> 01:55:01,127
WORK BACKWARDS FROM THE GOAL

3308
01:55:01,194 --> 01:55:03,062
ABOUT HOW WE ACCOMPLISH IT ON

3309
01:55:03,129 --> 01:55:03,263
TIME.

3310
01:55:03,329 --> 01:55:04,597
EVERY CONFIDENCE JUST AS YOU DO.

3311
01:55:04,664 --> 01:55:06,399
LET ME ASK ONE LAST QUESTION

3312
01:55:06,466 --> 01:55:13,139
THEN I'M GOING TO GO TO

3313
01:55:13,206 --> 01:55:14,173

Dr. DROGOMIRE AND A COUPLE

3314

01:55:14,240 --> 01:55:16,409

MEMBERS OF THE PANEL TO TAKE ONE

3315

01:55:16,476 --> 01:55:17,577

QUESTION, IF YOU CAN, WE'LL STAY

3316

01:55:17,644 --> 01:55:21,114

ON TIME BUT EILEEN COLLINS, YOU

3317

01:55:21,180 --> 01:55:22,415

MENTIONED THIS VERY HUMBLY BUT

3318

01:55:22,482 --> 01:55:24,017

YOU WERE A COMMANDER OF

3319

01:55:24,083 --> 01:55:25,485

DISCOVERY WHICH WAS THE FIRST

3320

01:55:25,551 --> 01:55:27,854

FLIGHT BACK AFTER THE COLUMBIA

3321

01:55:27,920 --> 01:55:32,625

TRAGEDY.

3322

01:55:32,692 --> 01:55:33,726

I ACKNOWLEDGE YOUR PERSONAL

3323

01:55:33,793 --> 01:55:35,461

COURAGE AND THAT OF YOUR FELLOW

3324

01:55:35,528 --> 01:55:38,031

ASTRONAUTS AT THAT TIME.

3325

01:55:38,097 --> 01:55:39,732

IT IS GREATLY TO YOUR CREDIT

3326

01:55:39,799 --> 01:55:43,236

THAT YOU TALK TODAY ALREADY

3327

01:55:43,303 --> 01:55:45,838

ABOUT RECOGNIZING RISK.

3328

01:55:45,905 --> 01:55:51,277

IF YOU HAD ONE MESSAGE, AND YOU

3329

01:55:51,344 --> 01:55:55,715

SPOKE ABOUT ARE CONTRACTORS

3330

01:55:55,782 --> 01:55:56,716

LISTENING, YOU SAID IT'S A

3331

01:55:56,783 --> 01:55:57,950

SERIOUS BUSINESS, IT'S A

3332

01:55:58,017 --> 01:55:59,052

DANGEROUS BUSINESS, PRIVATE

3333

01:55:59,118 --> 01:56:01,154

INDUSTRY, LISTENING IN, IS IS

3334

01:56:01,220 --> 01:56:04,791

THERE ANY ADDITIONAL MESSAGE?

3335

01:56:04,857 --> 01:56:05,925

BECAUSE THOSE OF US WHO SUPPORT

3336

01:56:05,992 --> 01:56:07,126

THIS PROGRAM SUPPORT THE

3337

01:56:07,193 --> 01:56:09,062

PRESIDENT'S VISION, WE'RE

3338

01:56:09,128 --> 01:56:10,229

LOOKING FOR COURAGEOUS AMERICANS

3339

01:56:10,296 --> 01:56:11,364

IN THIS GENERATION OF ASTRONAUTS

3340

01:56:11,431 --> 01:56:13,199

TO DO WHAT YOU HAD THE COURAGE

3341

01:56:13,266 --> 01:56:14,367

TO DO.

3342

01:56:14,434 --> 01:56:17,236

WE WANT TO DO IT SAFELY.

3343

01:56:17,303 --> 01:56:20,740

CAN YOU JUST SPEAK ABOUT ANY --

3344

01:56:20,807 --> 01:56:22,041

AS PEOPLE ARE LOOKING ON, PEOPLE

3345

01:56:22,108 --> 01:56:23,843

ARE GOING TO BE IMPLEMENTING

3346

01:56:23,910 --> 01:56:26,679

THIS UNDER JIM BRIDENSTINE'S

3347

01:56:26,746 --> 01:56:27,580

DIRECTION, ANY FURTHER WORD.

3348

01:56:27,647 --> 01:56:28,214

>> YES, SIR.

3349

01:56:28,281 --> 01:56:28,881

I REALLY APPRECIATE THE

3350

01:56:28,948 --> 01:56:31,584

QUESTION.

3351

01:56:31,651 --> 01:56:33,353

THERE'S ACTUALLY SO MANY BUT TO

3352

01:56:33,419 --> 01:56:34,987

BOIL IT DOWN, HAVING TRUST IN

3353

01:56:35,054 --> 01:56:36,589

YOUR PEOPLE, LEADERSHIP NEEDS TO

3354

01:56:36,656 --> 01:56:38,991

BE HUMBLE, OPEN-MINDED, IT

3355

01:56:39,058 --> 01:56:40,093

DOESN'T ALWAYS HAVE TO BE DONE

3356

01:56:40,159 --> 01:56:42,061

THE WAY IT'S ALWAYS BEEN DONE.

3357

01:56:42,128 --> 01:56:43,096

WE NEED TO BE CREATIVE IN THE

3358

01:56:43,162 --> 01:56:45,365

WAY WE'RE THINKING AND JUST AS

3359

01:56:45,431 --> 01:56:47,567

I'LL USE ONE EXAMPLE, THERE IS A

3360

01:56:47,633 --> 01:56:50,903

TERM CALLED NORMALIZATION OF

3361

01:56:50,970 --> 01:56:52,939

DEVIANCE AND IT WAS COINED BY A

3362

01:56:53,005 --> 01:56:53,873

SOCIOLOGIST WHO WROTE A BOOK ON

3363

01:56:53,940 --> 01:56:55,108

THE CHALLENGER ACCIDENT SO A

3364

01:56:55,174 --> 01:56:57,276

SYSTEM IS DESIGNED TO WORK A

3365

01:56:57,343 --> 01:56:59,178

CERTAIN WAY AND THEN YOU START

3366

01:56:59,245 --> 01:57:01,214

FLYING AND IT'S NOT DOING WHAT

3367

01:57:01,280 --> 01:57:05,017

YOU EXPECTED IT TO BE DOING, FOR

3368

01:57:05,084 --> 01:57:06,252

EXAMPLE, O-RINGS ARE BURNING

3369

01:57:06,319 --> 01:57:08,521

THROUGH OR FOAM IS FALLING OFF

3370

01:57:08,588 --> 01:57:09,689

THE EXTERNAL TANK.

3371

01:57:09,756 --> 01:57:10,823

YOU KEEP FLYING AND ALL OF A

3372

01:57:10,890 --> 01:57:14,827

SUDDEN WELL, THAT'S OKAY, IT'S

3373

01:57:14,894 --> 01:57:15,828

NORMALIZATION OF DEVIANS.

3374

01:57:15,895 --> 01:57:17,630

THAT IS SOMETHING WE CAN LOOK

3375

01:57:17,697 --> 01:57:18,364

OUT FOR.

3376

01:57:18,431 --> 01:57:19,932

I THINK ESPECIALLY IN COLUMBIA

3377

01:57:19,999 --> 01:57:20,900

IT WAS VERY SUBTLE.

3378

01:57:20,967 --> 01:57:22,902

IT WAS SOMETHING THAT EVEN THE

3379

01:57:22,969 --> 01:57:24,804

SMARTEST PEOPLE MISSED.

3380

01:57:24,871 --> 01:57:27,907

I DO WANT TO SAY, I HAD

3381

01:57:27,974 --> 01:57:30,343

WONDERFUL SUPPORT FROM NASA, YOU

3382

01:57:30,410 --> 01:57:37,750

MY WHOLE CREW, THE ASTRONAUT REN

3383

01:57:37,817 --> 01:57:38,684

TO FLIGHT PERIOD AND IT WAS

3384

01:57:38,751 --> 01:57:40,720

PRETTY MUCH A BIG SHOCK THAT GOT

3385

01:57:40,787 --> 01:57:44,657

US BACK TO FLYING SAFELY AGAIN.

3386

01:57:44,724 --> 01:57:46,192

IF WE REMEMBER THESE CULTURAL

3387

01:57:46,259 --> 01:57:49,562

LESSONS, CREATIVITY, HUMILITY,

3388

01:57:49,629 --> 01:57:49,962

OPEN-MINDEDNESS.

3389

01:57:50,029 --> 01:57:51,831

WE'RE IN A DANGEROUS BUSINESS.

3390

01:57:51,898 --> 01:57:53,433

LEARN FROM THE PAST LESSONS SO

3391

01:57:53,499 --> 01:57:55,568

THANK YOU FOR THE QUESTION.

3392

01:57:55,635 --> 01:57:58,404

>> WELL, THANK YOU FOR THE VERY

3393

01:57:58,471 --> 01:58:00,907

INSIGHTFUL ANSWER.

3394

01:58:00,973 --> 01:58:02,942

THE PRESIDENT WANTS US TO RENEW

3395

01:58:03,009 --> 01:58:04,444

AMERICAN COMMITMENT TO HUMAN

3396

01:58:04,510 --> 01:58:05,912

SPACE EXPLORATION.

3397

01:58:05,978 --> 01:58:06,779

YOU ASTRONAUTS ARE HEROES

3398

01:58:06,846 --> 01:58:11,317

BECAUSE YOU UNDERSTAND THE RISK.

3399

01:58:11,384 --> 01:58:13,019

OUR JOB ON THE GROUND IS TO

3400

01:58:13,085 --> 01:58:14,821

MINIMIZE THAT RISK TO THE

3401
01:58:14,887 --> 01:58:15,555
GREATEST EXTENT POSSIBLE AND YOU

3402
01:58:15,621 --> 01:58:17,957
HAVE OUR PROMISE TO DO THAT.

3403
01:58:18,024 --> 01:58:19,192
WE'LL INTERNALIZE THE LESSONS

3404
01:58:19,258 --> 01:58:23,596
AND THE COUNCIL COUNSEL YOU OFE

3405
01:58:23,663 --> 01:58:24,497
TODAY GOING FORWARD.

3406
01:58:24,564 --> 01:58:26,933
THANK YOU VERY MUCH.

3407
01:58:26,999 --> 01:58:31,771
LET ME GO -- WE'RE GOING TO MOVE

3408
01:58:31,838 --> 01:58:32,605
QUICKLY THROUGH QUESTIONS

3409
01:58:32,672 --> 01:58:35,107
THROUGH MEMBERS OF THE SPACE

3410
01:58:35,174 --> 01:58:35,808
COUNCIL.

3411
01:58:35,875 --> 01:58:36,042
DOCTOR.

3412
01:58:36,108 --> 01:58:37,210
>> THANK YOU, VICE-PRESIDENT

3413
01:58:37,276 --> 01:58:37,610

PENCE.

3414

01:58:37,677 --> 01:58:40,146

WE OFTEN TIMES HEAR ABOUT A NEED

3415

01:58:40,213 --> 01:58:41,380

FOR A SPUTNIK MOMENT.

3416

01:58:41,447 --> 01:58:42,315

THIS TRULY IS.

3417

01:58:42,381 --> 01:58:43,583

WE ARE AT AN INFLECTION MOMENT

3418

01:58:43,649 --> 01:58:45,585

IN THE HISTORY OF OUR NATION

3419

01:58:45,651 --> 01:58:46,419

REALLY PROPELLING US FORWARD

3420

01:58:46,486 --> 01:58:47,620

INTO THE NEXT GENERATION OF WHAT

3421

01:58:47,687 --> 01:58:48,955

WE EXPERIENCED WHEN WE WERE

3422

01:58:49,021 --> 01:58:51,257

YOUNG, INSPIRING PEOPLE TO JUST

3423

01:58:51,324 --> 01:58:52,492

GET INTO SCIENCE AND GET EXCITED

3424

01:58:52,558 --> 01:58:56,095

AND DO GREAT THINGS.

3425

01:58:56,162 --> 01:58:57,263

IT'S REALLY EXTRAORDINARY.

3426
01:58:57,330 --> 01:59:02,468
MY QUEST QUESTION IS, AS WE THIK

3427
01:59:02,535 --> 01:59:04,003
ABOUT TREMENDOUS OPPORTUNITIES

3428
01:59:04,070 --> 01:59:05,705
FOR EXPLORATION RESEARCH, MOON

3429
01:59:05,771 --> 01:59:07,507
AND BEYOND TO MARS, THERE'S ALL

3430
01:59:07,573 --> 01:59:09,308
KINDS OF THINGS, BIOLOGICAL

3431
01:59:09,375 --> 01:59:10,943
RESEARCH, GEOLOGICAL RESEARCH,

3432
01:59:11,010 --> 01:59:13,546
HUMAN AND HEALTH RESEARCH,

3433
01:59:13,613 --> 01:59:14,514
MANUFACTURING IN LOW-GRAVITY,

3434
01:59:14,580 --> 01:59:16,649
WHAT DO YOU SEE AS THE SCIENCE

3435
01:59:16,716 --> 01:59:18,551
FRONTIERS REALLY WE COULD

3436
01:59:18,618 --> 01:59:20,920
CAPTURE AS A NATION TO EXPLORE

3437
01:59:20,987 --> 01:59:22,555
THE UNKNOWN?

3438
01:59:22,622 --> 01:59:24,757

WHAT ARE THE CHALLENGES YOU SEE?

3439

01:59:24,824 --> 01:59:26,092

THIS IS SOMETHING WE AS A

3440

01:59:26,158 --> 01:59:27,894

GOVERNMENT AND PRIVATE SECTOR

3441

01:59:27,960 --> 01:59:28,461

COLLECTIVELY NEED TO THINK

3442

01:59:28,528 --> 01:59:29,095

ABOUT.

3443

01:59:29,161 --> 01:59:32,698

WHAT ARE THE GREAT FRONTIERS WE

3444

01:59:32,765 --> 01:59:34,033

SHOULD BE PUSHING FORWARD TO?

3445

01:59:34,100 --> 01:59:35,868

>> ARE YOU REFERRING TO MAINLY

3446

01:59:35,935 --> 01:59:38,704

HUMAN SPACE FLIGHT OR SCIENCE IN

3447

01:59:38,771 --> 01:59:38,938

GENERAL?

3448

01:59:39,005 --> 01:59:40,206

>> REALLY SCIENCE IN GENERAL BUT

3449

01:59:40,273 --> 01:59:40,806

ESPECIALLY CHA CAN BE

3450

01:59:40,873 --> 01:59:41,741

ACCOMPLISHED BY OUR MISSIONS TO

3451
01:59:41,807 --> 01:59:43,543
THE MOON AND THEN TO MARS.

3452
01:59:43,609 --> 01:59:44,744
>> CERTAINLY I THINK WE WENT TO

3453
01:59:44,810 --> 01:59:46,679
THE MOON BEFORE.

3454
01:59:46,746 --> 01:59:48,981
AND WE BROUGHT SAMPLES BACK.

3455
01:59:49,048 --> 01:59:51,384
AND WE HAVE ANALYZED THE SAMPLES

3456
01:59:51,450 --> 01:59:52,919
BUT WE ONLY REALLY WENT TO PART

3457
01:59:52,985 --> 01:59:54,554
OF THE MOON AND I THINK THERE'S

3458
01:59:54,620 --> 01:59:56,389
SOME INTERESTING DATA WE'VE

3459
01:59:56,455 --> 01:59:57,657
DISCOVERED SINCE THOSE DECADES

3460
01:59:57,723 --> 01:59:58,958
AGO OF THINGS WE SHOULD GO

3461
01:59:59,025 --> 02:00:01,093
INVESTIGATE AT THE POLES, FOR

3462
02:00:01,160 --> 02:00:02,328
EXAMPLE, AS VICE-PRESIDENT

3463
02:00:02,395 --> 02:00:03,429

MENTIONED EARLIER, INTERESTING

3464

02:00:03,496 --> 02:00:04,330
PLACE FOR PEOPLE TO GO.

3465

02:00:04,397 --> 02:00:05,398
WE ALSO HAVE DIFFERENT

3466

02:00:05,464 --> 02:00:06,265
TECHNOLOGIES NOW.

3467

02:00:06,332 --> 02:00:07,967
AND SO I THINK NOT JUST ONLY

3468

02:00:08,034 --> 02:00:10,102
FROM A SCIENCE VIEWPOINT BUT

3469

02:00:10,169 --> 02:00:12,405
FROM A UTILIZATION AND

3470

02:00:12,471 --> 02:00:13,239
TECHNOLOGY DEVELOPMENT VIEWPOINT

3471

02:00:13,306 --> 02:00:14,273
WHAT WE CAN DO ON THE MOON AND

3472

02:00:14,340 --> 02:00:15,241
OF COURSE YOU CAN TAKE THAT

3473

02:00:15,308 --> 02:00:17,276
WHOLE CONVERSATION AND GO TO

3474

02:00:17,343 --> 02:00:21,213
MARS AND HAVE THAT SAME SORT OF

3475

02:00:21,280 --> 02:00:22,682
EXPLORATORY LOOK AT WHAT WE CAN

3476

02:00:22,748 --> 02:00:24,617

DO WITH USING THE PLANET.

3477

02:00:24,684 --> 02:00:26,452

SO I THINK THAT'S DEFINITELY

3478

02:00:26,519 --> 02:00:28,654

KIND OF A MIX OF SCIENCE AND

3479

02:00:28,721 --> 02:00:29,388

TECHNOLOGY, IT'S NOT JUST

3480

02:00:29,455 --> 02:00:30,890

SCIENCE BUT IF YOU ARE SPEAKING

3481

02:00:30,957 --> 02:00:31,891

ABOUT EXCITING THE YOUTH AND

3482

02:00:31,958 --> 02:00:32,825

EXCITING THE COUNTRY ABOUT WHAT

3483

02:00:32,892 --> 02:00:33,926

WE'RE DOING, I THINK THOSE ARE

3484

02:00:33,993 --> 02:00:35,161

THE KIND OF THINGS THAT WOULD DO

3485

02:00:35,227 --> 02:00:35,895

THAT.

3486

02:00:35,962 --> 02:00:37,597

>> THANK YOU.

3487

02:00:37,663 --> 02:00:41,901

ANY OTHER STATEMENTS FROM

3488

02:00:41,968 --> 02:00:42,301

PANELISTS?

3489

02:00:42,368 --> 02:00:44,904

>> I'M JUST MAKE A COMMENT ON

3490

02:00:44,971 --> 02:00:46,539

THE KEPLER SATELLITE WHICH IS

3491

02:00:46,606 --> 02:00:47,940

NOW NOT WORKING ANYMORE, THE

3492

02:00:48,007 --> 02:00:50,076

PURPOSE WAS TO FIND EARTH-LIKE

3493

02:00:50,142 --> 02:00:51,277

PLANETS OUTSIDE OF OUR SOLAR

3494

02:00:51,344 --> 02:00:51,577

SYSTEM.

3495

02:00:51,644 --> 02:00:54,313

I FOUND THIS TO BE INCREDIBLY

3496

02:00:54,380 --> 02:00:57,316

INSPIRING, ESPECIALLY FOR YOUNG

3497

02:00:57,383 --> 02:00:57,984

PEOPLE AND PEOPLE THAT WANT TO

3498

02:00:58,050 --> 02:00:58,751

KNOW WHAT'S OUT THERE.

3499

02:00:58,818 --> 02:01:00,686

THE KEPLER SATELLITE LOOKED AT A

3500

02:01:00,753 --> 02:01:02,488

VERY SMALL PIECE OF THE SKY AND

3501
02:01:02,555 --> 02:01:04,290
THEY FOUND MAYBE 2,000

3502
02:01:04,357 --> 02:01:05,725
POTENTIALLY EARTH-LIKE PLANETS.

3503
02:01:05,791 --> 02:01:07,093
THE NUMBER KEEPS CHANGING.

3504
02:01:07,159 --> 02:01:10,363
IF YOU COULD TAKE THAT PIECE OF

3505
02:01:10,429 --> 02:01:11,664
SKY AND GO ALL THE WAY AROUND

3506
02:01:11,731 --> 02:01:13,199
THE SPHERE WITH IT, THEY SAY

3507
02:01:13,265 --> 02:01:14,867
THERE'S SOMETHING LIKE

3508
02:01:14,934 --> 02:01:15,368
POTENTIALLY 10 BILLION

3509
02:01:15,434 --> 02:01:16,636
EARTH-LIKE PLANETS AND I FIND

3510
02:01:16,702 --> 02:01:17,937
THAT INCREDIBLY INSPIRING FROM

3511
02:01:18,004 --> 02:01:19,639
THE SCIENCE SIDE AND NOW THE

3512
02:01:19,705 --> 02:01:22,375
TEST SATELLITE IS UP THERE DOING

3513
02:01:22,441 --> 02:01:26,312

A SIMILAR MISSION TO THE KEPLER.

3514

02:01:26,379 --> 02:01:28,214

>> DOCTOR, I THINK ONE OF THE

3515

02:01:28,280 --> 02:01:30,149

ANSWERS TO YOUR QUESTION IS

3516

02:01:30,216 --> 02:01:30,750

ADDRESSED BY THE INTERNATIONAL

3517

02:01:30,816 --> 02:01:32,752

SPACE STATION TODAY.

3518

02:01:32,818 --> 02:01:35,187

IT IS A NATIONAL LABORATORY.

3519

02:01:35,254 --> 02:01:36,822

AND PROBABLY THE GREATEST USER

3520

02:01:36,889 --> 02:01:40,326

IN TERMS OF COMMERCIAL PURPOSES

3521

02:01:40,393 --> 02:01:41,160

ARE FARMER COMPANIES.

3522

02:01:41,227 --> 02:01:42,261

THEY'RE DOING BIOLOGICAL AND

3523

02:01:42,328 --> 02:01:43,129

MEDICAL RESEARCH YOU COULDN'T

3524

02:01:43,195 --> 02:01:45,564

EVEN BEGIN TO ADDRESS OR THINK

3525

02:01:45,631 --> 02:01:48,100

ABOUT HERE ON EARTH AND THAT'S

3526
02:01:48,167 --> 02:01:49,201
ANOTHER REASON WHY WE NEED TO

3527
02:01:49,268 --> 02:01:51,303
MAKE SURE WE MAINTAIN A

3528
02:01:51,370 --> 02:01:52,505
LOW-EARTH ORBIT PRESENCE AND

3529
02:01:52,571 --> 02:01:54,240
MAINTAIN SOMETHING LIKE THE

3530
02:01:54,306 --> 02:01:55,074
INTERNATIONAL SPACE STATION TO

3531
02:01:55,141 --> 02:01:56,676
CONTINUE TO FIND OUT THINGS WE

3532
02:01:56,742 --> 02:01:59,178
CAN'T LEARN HERE ON EARTH.

3533
02:01:59,245 --> 02:01:59,612
>> GREAT.

3534
02:01:59,679 --> 02:02:01,914
SECRETARY CHAO.

3535
02:02:01,981 --> 02:02:03,182
>> I THINK THE QUESTIONS HAVE

3536
02:02:03,249 --> 02:02:07,653
BEEN REALLY INSPIRING.

3537
02:02:07,720 --> 02:02:10,990
I AM JUST SO IN AWE OF THE

3538
02:02:11,057 --> 02:02:11,257

PANELISTS.

3539

02:02:11,323 --> 02:02:14,894

THE TWO FEMALE ASTRONAUTS, THE

3540

02:02:14,960 --> 02:02:18,464

FIRST WOMAN TO LEAD THE SHUTTLE

3541

02:02:18,531 --> 02:02:19,965

MISSION COMMANDER.

3542

02:02:20,032 --> 02:02:24,203

I'M TOTALLY IN AWE AND I'M

3543

02:02:24,270 --> 02:02:26,305

LEARNING SO MUCH.

3544

02:02:26,372 --> 02:02:26,839

>> SO ARE WE.

3545

02:02:26,906 --> 02:02:29,842

[Applause]

3546

02:02:29,909 --> 02:02:30,976

JIM BRIDENSTINE.

3547

02:02:31,043 --> 02:02:35,081

SOMETHING QUICK.

3548

02:02:35,147 --> 02:02:37,216

THEN WE'LL MOVE ON TO OUR NEXT

3549

02:02:37,283 --> 02:02:37,416

PANEL.

3550

02:02:37,483 --> 02:02:38,851

>> I'LL BE QUICK.

3551
02:02:38,918 --> 02:02:39,752
GENERAL LILES, YOU KNOW YOU OF

3552
02:02:39,819 --> 02:02:41,087
COURSE HAD A VERY DISTINGUISHED

3553
02:02:41,153 --> 02:02:42,588
CAREER IN THE AIR FORCE.

3554
02:02:42,655 --> 02:02:44,090
THERE ARE PROCUREMENT

3555
02:02:44,156 --> 02:02:46,659
AUTHORITIES THAT EXIST IN THE

3556
02:02:46,726 --> 02:02:48,828
AIR FORCE DX PROCUREMENT

3557
02:02:48,894 --> 02:02:49,095
AUTHORITY.

3558
02:02:49,161 --> 02:02:50,663
WOULD YOU MIND SHARING WITH THE

3559
02:02:50,730 --> 02:02:52,364
PANEL WHAT THAT IS AND HOW IT

3560
02:02:52,431 --> 02:02:54,934
WORKS AND IF NASA COULD BENEFIT

3561
02:02:55,000 --> 02:02:55,468
FROM IT.

3562
02:02:55,534 --> 02:02:57,336
>> THAT THANK YOU, ADMINISTRATOR.

3563
02:02:57,403 --> 02:02:58,671

ONE OF THE KEY THINGS I THINK IS

3564

02:02:58,738 --> 02:03:00,239

GOING TO LEAD TO HELP ADDRESS

3565

02:03:00,306 --> 02:03:01,807

SOME OF THE THINGS WE'RE TRYING

3566

02:03:01,874 --> 02:03:03,075

TO DO PARTICULARLY VERY QUICKLY

3567

02:03:03,142 --> 02:03:07,913

IS TO MAKE SURE WE HAVE ALL THE

3568

02:03:07,980 --> 02:03:09,281

AUTHORITIES -- TAKE ADVANTAGE OF

3569

02:03:09,348 --> 02:03:11,350

ALL THE AUTHORITIES AVAILABLE.

3570

02:03:11,417 --> 02:03:13,252

DX AUTHORITIES, SECTION 804

3571

02:03:13,319 --> 02:03:15,187

AUTHORITIES FROM THE NATIONAL

3572

02:03:15,254 --> 02:03:20,025

DEFENSE AUTHORIZATION ACT, RCO

3573

02:03:20,092 --> 02:03:23,462

RAPID CAPABILITY, THE GENERAL,

3574

02:03:23,529 --> 02:03:25,064

THEY KNOW THEM VERY WELL.

3575

02:03:25,131 --> 02:03:26,365

THE RULES EITHER ALREADY ALLOW

3576
02:03:26,432 --> 02:03:28,734
US TO DO THINGS IN A STREAMLINED

3577
02:03:28,801 --> 02:03:30,002
MANNER BUT WE DON'T TAKE

3578
02:03:30,069 --> 02:03:32,037
ADVANTAGE OF IT OR WE NEEDED TO

3579
02:03:32,104 --> 02:03:33,539
HAVE SOME WAYS TO GET AROUND

3580
02:03:33,606 --> 02:03:34,840
SOME OF THE RULES TO ALLOW US TO

3581
02:03:34,907 --> 02:03:36,876
DO THINGS QUICKLY.

3582
02:03:36,942 --> 02:03:38,377
I'M HOPING AND COMMIT TO YOU

3583
02:03:38,444 --> 02:03:40,613
THAT NASA TAKE A VERY CLOSE LOOK

3584
02:03:40,679 --> 02:03:41,781
WITH ALL THE EXAMPLES IN THE

3585
02:03:41,847 --> 02:03:42,848
DEPARTMENT OF DEFENSE AND IT

3586
02:03:42,915 --> 02:03:43,783
WON'T TAKE VERY LONG BECAUSE

3587
02:03:43,849 --> 02:03:45,651
THEY'RE DOING IT EVERY DAY TO

3588
02:03:45,718 --> 02:03:47,787

SEE THE KINDS OF THINGS YOU CAN

3589

02:03:47,853 --> 02:03:51,190

USE LIKEWISE TO STREAMLINE THE

3590

02:03:51,257 --> 02:03:53,359

EFFORTS YOU'RE WORKING ON.

3591

02:03:53,425 --> 02:03:57,930

[Applause]

3592

02:03:57,997 --> 02:03:59,732

>> WITH THAT, JOIN ME IN

3593

02:03:59,799 --> 02:04:02,301

THANKING THIS REALLY OUTSTANDING

3594

02:04:02,368 --> 02:04:04,603

PANEL FOR THEIR INSIGHTS TODAY

3595

02:04:04,670 --> 02:04:06,906

AND THANK YOU FOR THEIR

3596

02:04:06,972 --> 02:04:07,640

EXTRAORDINARY CAREERS OF

3597

02:04:07,706 --> 02:04:07,907

SERVICE.

3598

02:04:07,973 --> 02:04:08,908

WELL DONE.

3599

02:04:08,974 --> 02:04:10,843

WE'LL INVITE OUR SECOND OF TWO

3600

02:04:10,910 --> 02:04:12,244

PANELS TO COME FORWARD.

3601
02:04:12,311 --> 02:04:15,948
FOR THOSE LOOKING ON, IN

3602
02:04:16,015 --> 02:04:17,783
ATTENDANCE, WE WILL THEN ACCEPT

3603
02:04:17,850 --> 02:04:18,984
RECOMMENDATIONS TO BE FORWARDED

3604
02:04:19,051 --> 02:04:21,921
TO THE PRESIDENT AND WE'LL

3605
02:04:21,987 --> 02:04:23,322
COMPLETE OUR WORK BUT AGAIN

3606
02:04:23,389 --> 02:04:24,824
THANK YOU TO THE PANEL FOR THOSE

3607
02:04:24,890 --> 02:04:26,525
GREAT, GREAT WORDS.

3608
02:04:26,592 --> 02:04:29,261
TODAY'S SECOND PANEL FEATURES

3609
02:04:29,328 --> 02:04:41,841
THREE EXPERTS IN THE SCIENCE

3610
02:04:41,907 --> 02:04:43,175
COMMUNITY, INCREDIBLE CAREERS

3611
02:04:43,242 --> 02:04:44,043
RUNNING MAJOR PROGRAMS AND ARE

3612
02:04:44,109 --> 02:04:45,044
GOING TO FOCUS ON A THEME OF

3613
02:04:45,110 --> 02:04:46,645

READY ARE TO EXPLORE.

3614

02:04:46,712 --> 02:04:50,015

OUR FIRST PANELIST, Dr. JACK

3615

02:04:50,082 --> 02:04:51,217

BARNES, PROFESSOR OF ASTRO

3616

02:04:51,283 --> 02:04:52,284

SCIENCE AT UNIVERSITY OF

3617

02:04:52,351 --> 02:04:53,185

COLORADO BOULDER.

3618

02:04:53,252 --> 02:04:56,655

HE WAS AWARDED MASTER OF SCIENCE

3619

02:04:56,722 --> 02:04:59,091

PH.D. OF COURSE AT INDIANA

3620

02:04:59,158 --> 02:05:02,661

UNIVERSITY.

3621

02:05:02,728 --> 02:05:04,864

HE'S A VERY DISTINGUISHED

3622

02:05:04,930 --> 02:05:07,099

SCHOLAR.

3623

02:05:07,166 --> 02:05:10,302

DAN DUMBOKE, THE EXECUTIVE

3624

02:05:10,369 --> 02:05:11,637

DIRECTOR OF AMERICAN INSTITUTE

3625

02:05:11,704 --> 02:05:17,643

OF AERONAUTICS AND ASTRONAUTICS.

3626
02:05:17,710 --> 02:05:21,280
HE WAS DIRECTORATE FOR '07 TO

3627
02:05:21,347 --> 02:05:21,614
'14.

3628
02:05:21,680 --> 02:05:24,917
DAN DID RECEIVE HIS MBA FROM

3629
02:05:24,984 --> 02:05:27,920
UNIVERSITY OF ALABAMA BUT A BA

3630
02:05:27,987 --> 02:05:29,855
FROM PURDUE UNIVERSITY.

3631
02:05:29,922 --> 02:05:37,196
PICKING UP A THEME, IT'S REAL.

3632
02:05:37,263 --> 02:05:42,735
WANDA SEGER, 38-YEAR CAREER AT

3633
02:05:42,801 --> 02:05:43,569
LOCKHEED MARTIN.

3634
02:05:43,636 --> 02:05:44,737
SHE'S VICE-PRESIDENT OF THE

3635
02:05:44,803 --> 02:05:45,838
CIVIL SPACE SYSTEM.

3636
02:05:45,905 --> 02:05:47,573
SHE OVERSAW SOME OF THE MOST

3637
02:05:47,640 --> 02:05:49,575
PROLIFIC HUMAN SPACE FLIGHT AND

3638
02:05:49,642 --> 02:05:50,576

SPACE SCIENCE MISSIONS.

3639

02:05:50,643 --> 02:05:52,111

JOIN ME IN WELCOMING THIS

3640

02:05:52,177 --> 02:05:54,013

OUTSTANDING PANEL.

3641

02:05:54,079 --> 02:05:55,948

WE LOOK FORWARD TO THEIR

3642

02:05:56,015 --> 02:05:56,215

COMMENTS.

3643

02:05:56,282 --> 02:05:56,615

[Applause]

3644

02:05:56,682 --> 02:05:57,449

THANK YOU.

3645

02:05:57,516 --> 02:05:58,951

Dr. JACK BARNES IS RECOGNIZED

3646

02:05:59,018 --> 02:06:01,020

AND WE'LL MOVE ON TO QUESTIONS

3647

02:06:01,086 --> 02:06:02,187

AFTER YOUR BRIEF OPENING

3648

02:06:02,254 --> 02:06:02,454

STATEMENT.

3649

02:06:02,521 --> 02:06:02,821

>> THANK YOU,

3650

02:06:02,888 --> 02:06:04,056

Mr. VICE-PRESIDENT.

3651
02:06:04,123 --> 02:06:05,691
MEMBERS OF THE NATIONAL SPACE

3652
02:06:05,758 --> 02:06:05,991
COUNCIL.

3653
02:06:06,058 --> 02:06:08,560
I'M HONORED TO JOIN YOU ALL THIS

3654
02:06:08,627 --> 02:06:09,295
AFTERNOON.

3655
02:06:09,361 --> 02:06:10,329
Dr. MAGNUS AND I WERE

3656
02:06:10,396 --> 02:06:12,631
PRIVILEGED TO BE MEMBERS OF THE

3657
02:06:12,698 --> 02:06:14,667
PRESIDENTIAL TRANSITION LANDING

3658
02:06:14,733 --> 02:06:16,769
TEAM AND WE FOUND IN OUR

3659
02:06:16,835 --> 02:06:18,370
ANALYSIS THAT AMERICA IS READY

3660
02:06:18,437 --> 02:06:20,673
TO EXPLORE AGAIN, AND SHOULD

3661
02:06:20,739 --> 02:06:23,008
LEAD THE WORLD IN THESE NEW

3662
02:06:23,075 --> 02:06:24,310
VOYAGES OF DISCOVERY BY AMONG

3663
02:06:24,376 --> 02:06:26,745

OTHER THINGS DEMONSTRATING A

3664

02:06:26,812 --> 02:06:29,048

PREEMINENCE IN SPACE BY RAPIDLY

3665

02:06:29,114 --> 02:06:30,749

EXPANDING HUMANITY INTO THE

3666

02:06:30,816 --> 02:06:32,985

SOLAR SYSTEM, INCORPORATING

3667

02:06:33,052 --> 02:06:35,321

PUBLIC, PRIVATE AND AS I LIKE TO

3668

02:06:35,387 --> 02:06:37,089

ADD ACADEMIC PARTNERSHIPS.

3669

02:06:37,156 --> 02:06:41,026

THIS GOAL IS INCORPORATED IN THE

3670

02:06:41,093 --> 02:06:41,527

PRESIDENT'S SPACE POLICY

3671

02:06:41,593 --> 02:06:42,061

DIRECTIVE ONE AND IN THE

3672

02:06:42,127 --> 02:06:43,562

CHALLENGE WE HEARD FROM THE

3673

02:06:43,629 --> 02:06:44,363

VICE-PRESIDENT TODAY.

3674

02:06:44,430 --> 02:06:46,999

BUT TO CARRY OUT THIS VISIONARY

3675

02:06:47,066 --> 02:06:48,701

PROGRAM, NASA MUST HAVE ADEQUATE

3676
02:06:48,767 --> 02:06:50,102
RESOURCES.

3677
02:06:50,169 --> 02:06:54,840
WE MUST BE REALISTIC IN

3678
02:06:54,907 --> 02:06:56,075
RECOGNIZING AS WAS TRUE WITH THE

3679
02:06:56,141 --> 02:06:56,976
EARLY AIRLINE AND COMPUTER

3680
02:06:57,042 --> 02:06:57,676
INDUSTRIES THAT THE FEDERAL

3681
02:06:57,743 --> 02:06:59,678
GOVERNMENT WILL BE THE ANCHOR

3682
02:06:59,745 --> 02:07:03,282
TENANT IN THE DEVELOPMENT OF

3683
02:07:03,349 --> 02:07:04,316
LUNAR SPACE OVER THE NEXT DECADE

3684
02:07:04,383 --> 02:07:05,317
OR SO BUT THOSE INVESTMENTS

3685
02:07:05,384 --> 02:07:07,019
TODAY WILL ENABLE ENTREPRENEURS

3686
02:07:07,086 --> 02:07:08,387
TO CLOSE THEIR BUSINESS PLANS

3687
02:07:08,454 --> 02:07:10,122
FOR THE FUTURE.

3688
02:07:10,189 --> 02:07:13,759

THE MOON IS THE PRACTICAL

3689

02:07:13,826 --> 02:07:14,593

DESTINATION FOR SPACE

3690

02:07:14,660 --> 02:07:15,995

EXPLORATION IN THE NEXT FEW

3691

02:07:16,061 --> 02:07:16,362

YEARS.

3692

02:07:16,428 --> 02:07:18,697

HOWEVER, BEFORE WE BEGIN, WE

3693

02:07:18,764 --> 02:07:20,232

NEED TO CLEARLY ARTICULATE THE

3694

02:07:20,299 --> 02:07:22,234

REASONS FOR GOING TO THE MOON

3695

02:07:22,301 --> 02:07:24,436

AND TO CONGRESS AND THE PUBLIC

3696

02:07:24,503 --> 02:07:26,372

WILL EMBRACE THIS GOAL.

3697

02:07:26,438 --> 02:07:28,774

PIECES OF THIS PLAN EXIST

3698

02:07:28,841 --> 02:07:30,576

CURRENTLY BUT IT ALSO LACKS

3699

02:07:30,642 --> 02:07:32,144

COHESION.

3700

02:07:32,211 --> 02:07:33,612

THOSE COMPONENTS INCLUDE THINGS

3701

02:07:33,679 --> 02:07:35,014

LIKE THE COMMERCIAL LUNAR

3702

02:07:35,080 --> 02:07:37,616

PAYLOAD SERVICES, THE ECLIPSE

3703

02:07:37,683 --> 02:07:38,617

PROGRAM WE HEARD A LITTLE BIT

3704

02:07:38,684 --> 02:07:41,153

ABOUT A FEW MINUTES AGO.

3705

02:07:41,220 --> 02:07:42,955

I'M PART OF THE TEAM THAT WAS

3706

02:07:43,022 --> 02:07:44,757

SELECTED AS ONE OF THOSE

3707

02:07:44,823 --> 02:07:47,893

PAYLOADS FOR THE SURFACE, A LOW

3708

02:07:47,960 --> 02:07:49,595

RADIO FREQUENCY EXPERIMENT ON

3709

02:07:49,661 --> 02:07:51,997

THE SURFACE THAT IS A PROTOTYPE

3710

02:07:52,064 --> 02:07:53,632

OF AN ARRAY WE HOPE TO PUT ON

3711

02:07:53,699 --> 02:07:57,636

THE FAR SIDE, ADMINISTRATIVE

3712

02:07:57,703 --> 02:07:59,071

BIDEN STEIN MENTIONED THIS IN

3713

02:07:59,138 --> 02:08:00,873

HIS REMARKS A COUPLE WEEKS AGO

3714

02:08:00,939 --> 02:08:03,642

AS PART OF THE BUDGET ROLLOUT

3715

02:08:03,709 --> 02:08:03,842

WEEK.

3716

02:08:03,909 --> 02:08:04,676

APPRECIATE THAT.

3717

02:08:04,743 --> 02:08:06,578

SECONDLY, BEFORE WE PUT BOOTS ON

3718

02:08:06,645 --> 02:08:08,947

THE GROUND AT THE POLES, WE

3719

02:08:09,014 --> 02:08:11,483

URGENTLY NEED A ROBOTIC WATER

3720

02:08:11,550 --> 02:08:14,053

EYES PROSPECTING MISSION TO THE

3721

02:08:14,119 --> 02:08:15,287

LUNAR POLES.

3722

02:08:15,354 --> 02:08:19,091

AS WE'VE HEARD, WATER ICE IS A

3723

02:08:19,158 --> 02:08:21,326

GAME-CHANGER, POTENTIALLY WE CAN

3724

02:08:21,393 --> 02:08:23,929

BREAK THOSE CONSTITUENTS OF

3725

02:08:23,996 --> 02:08:25,597

HYDROGEN OXYGEN AND REASSEMBLE

3726
02:08:25,664 --> 02:08:26,965
THEM INTO ROCKET FUEL, BUT IT IS

3727
02:08:27,032 --> 02:08:29,568
A VERY CHALLENGING EXERCISE.

3728
02:08:29,635 --> 02:08:30,769
THOSE PERMANENTLY SHADOWED

3729
02:08:30,836 --> 02:08:33,272
CRATERS ARE AT A TEMPERATURE OF

3730
02:08:33,338 --> 02:08:36,175
ONLY 40° ABOVE ABSOLUTE ZERO.

3731
02:08:36,241 --> 02:08:38,110
HOW DIFFICULT IS IT FOR HUMANS

3732
02:08:38,177 --> 02:08:40,212
AND MACHINES TO OPERATE UNDER

3733
02:08:40,279 --> 02:08:41,146
THOSE CHALLENGING CONDITIONS.

3734
02:08:41,213 --> 02:08:43,949
WHAT IS THE NATURE OF THAT WATER

3735
02:08:44,016 --> 02:08:48,787
ICE, HOW EASY OR I DIFFICULT IST

3736
02:08:48,854 --> 02:08:49,588
TO EXTRACT.

3737
02:08:49,655 --> 02:08:50,889
WE NEED A MISSION IN THE NEXT

3738
02:08:50,956 --> 02:08:52,791

COUPLE YEARS TO GET THIS GOING.

3739

02:08:52,858 --> 02:08:54,593

WE ALSO NEED A ROBOTIC MISSION

3740

02:08:54,660 --> 02:08:57,729

TO THE LUNAR FAR SIDE TO RETURN

3741

02:08:57,796 --> 02:08:57,963

SAMPLES.

3742

02:08:58,030 --> 02:08:58,730

RECENTLY WE HEARD ABOUT THE

3743

02:08:58,797 --> 02:09:00,065

CHINESE LANDING ON THE FAR SIDE.

3744

02:09:00,132 --> 02:09:01,567

I PERSONALLY WAS GREATLY

3745

02:09:01,633 --> 02:09:04,970

DISAPPOINTED THAT THE U.S. WAS

3746

02:09:05,037 --> 02:09:06,638

NOT THE FIRST ON THE MOON.

3747

02:09:06,705 --> 02:09:08,907

THIS IS AFTER SPENDING TENS OF

3748

02:09:08,974 --> 02:09:12,111

MILLIONS OF DOLLARS OF NASA

3749

02:09:12,177 --> 02:09:15,047

FUNDING TO PLAN WHAT EXPLORATION

3750

02:09:15,114 --> 02:09:16,849

AND SCIENCE MISSIONS ARE BUT OF

3751
02:09:16,915 --> 02:09:17,950
COURSE THERE'S STILL MUCH TO BE

3752
02:09:18,016 --> 02:09:18,784
DONE FROM THE FAR SIDE.

3753
02:09:18,851 --> 02:09:23,589
THE FAR SIDE CONTAINS THE

3754
02:09:23,655 --> 02:09:26,558
OLDEST, DEEPEST, LARGEST IMPACT

3755
02:09:26,625 --> 02:09:28,127
BASIN IN THE SOLAR SYSTEM CALLED

3756
02:09:28,193 --> 02:09:31,563
THE SOUTH POLE BASIN.

3757
02:09:31,630 --> 02:09:32,564
WE CONSIDER THAT REGION TO BE

3758
02:09:32,631 --> 02:09:33,866
THE HISTORY BOOK OF THE EARLY

3759
02:09:33,932 --> 02:09:34,566
SOLAR SYSTEM.

3760
02:09:34,633 --> 02:09:37,803
HOLDING THE SECRETS OF THE

3761
02:09:37,870 --> 02:09:38,437
BOMBARDMENT HISTORY THAT SHAPED

3762
02:09:38,504 --> 02:09:41,306
THE EARTH AND ALSO DURING THAT

3763
02:09:41,373 --> 02:09:45,744

TIME PERIOD LED TO THE FIRST

3764

02:09:45,811 --> 02:09:47,146

FORMATION OF LIFE ON OUR PLANET.

3765

02:09:47,212 --> 02:09:50,549

LASTLY A SUSTAINABLE LUNAR

3766

02:09:50,616 --> 02:09:51,350

PROGRAM MUST INCLUDE HUMANS ON

3767

02:09:51,416 --> 02:09:52,684

THE SURFACEMENT AS THE

3768

02:09:52,751 --> 02:09:53,685

VICE-PRESIDENT SAID BY THE

3769

02:09:53,752 --> 02:09:56,622

MIDDLE OF THIS DECADE BY 2024,

3770

02:09:56,688 --> 02:09:58,123

NOT THE END OF THE DECADE AS

3771

02:09:58,190 --> 02:09:59,925

WE'VE HEARD ABOUT PREVIOUSLY.

3772

02:09:59,992 --> 02:10:01,994

TODAY WE CAN DO RAPID

3773

02:10:02,060 --> 02:10:02,961

PROTOTYPING AND DEVELOPMENT OF

3774

02:10:03,028 --> 02:10:05,764

THE HUMAN LANDER THAT REUSES

3775

02:10:05,831 --> 02:10:07,966

SYSTEMS AND TECHNOLOGY FROM

3776

02:10:08,033 --> 02:10:09,835

ORIGIN, FROM THE ORION, RATHER,

3777

02:10:09,902 --> 02:10:11,703

THE CURIOSITY, AND THE MARS

3778

02:10:11,770 --> 02:10:12,604

INSIGHT LANDER.

3779

02:10:12,671 --> 02:10:14,773

LET'S MAKE SURE WE ARE TAKING

3780

02:10:14,840 --> 02:10:15,641

ADVANTAGE OF THAT.

3781

02:10:15,707 --> 02:10:16,508

FINALLY, IF THIS STRATEGIC

3782

02:10:16,575 --> 02:10:18,177

VISION FOR LUNAR DEVELOPMENT IS

3783

02:10:18,243 --> 02:10:20,679

TO SUCCEED, WE MUST CHANGE OUR

3784

02:10:20,746 --> 02:10:21,380

TOLERANCE FOR RISK.

3785

02:10:21,446 --> 02:10:23,682

AND THAT'S NOT JUST THE AGENCY.

3786

02:10:23,749 --> 02:10:25,717

THAT'S ALSO THE CONGRESS AND THE

3787

02:10:25,784 --> 02:10:26,718

AMERICAN PUBLIC.

3788

02:10:26,785 --> 02:10:28,820

THIS WILL REQUIRE A CULTURE

3789

02:10:28,887 --> 02:10:30,722

CHANGE WHERE FAILURE IS NOT A

3790

02:10:30,789 --> 02:10:32,758

FAULT BUT RATHER AN OPPORTUNITY

3791

02:10:32,824 --> 02:10:35,827

TO LEARN AND TO IMPROVE.

3792

02:10:35,894 --> 02:10:38,063

EQUALLY IMPORTANT IS STABILITY.

3793

02:10:38,130 --> 02:10:39,798

STABILITY OF NATIONAL

3794

02:10:39,865 --> 02:10:41,934

LEADERSHIP, STABILITY OF OUR

3795

02:10:42,000 --> 02:10:44,603

GOALS FOR THE SPACE PROGRAM WERE

3796

02:10:44,670 --> 02:10:46,738

LONG-TERM TARGETS AND PROPER

3797

02:10:46,805 --> 02:10:49,541

FUNDING ARE MAINTAINED GIVEN US

3798

02:10:49,608 --> 02:10:53,345

THE BEST THE OPPORTUNITY TO

3799

02:10:53,412 --> 02:10:53,612

SUCCEED.

3800

02:10:53,679 --> 02:10:56,014

THANK YOU, Mr. VICE-PRESIDENT.

3801
02:10:56,081 --> 02:10:56,715
>> THANK YOU, PROFESSOR.

3802
02:10:57,416 --> 02:10:57,115
WELL DONE.

3803
02:10:57,482 --> 02:11:02,054
[Applause]

3804
02:11:02,120 --> 02:11:08,594
WITH THAT, LET ME RECOGNIZE OUR

3805
02:11:08,660 --> 02:11:10,262
NEXT PANELIST.

3806
02:11:10,329 --> 02:11:14,967
AND GET TO MY QUESTIONS.

3807
02:11:15,033 --> 02:11:16,301
DAN, THE EXECUTIVE DIRECTOR OF

3808
02:11:16,368 --> 02:11:19,137
THE AMERICAN INSTITUTE OF

3809
02:11:19,204 --> 02:11:21,173
AERONAUTICS AND ASTRONAUTICS,

3810
02:11:21,240 --> 02:11:22,441
THANK YOU FOR BEING HERE.

3811
02:11:22,507 --> 02:11:23,942
>> THANK YOU, VICE-PRESIDENT,

3812
02:11:24,009 --> 02:11:26,678
MEMBERS OF THE NATIONAL SPACE

3813
02:11:26,745 --> 02:11:27,346

COUNCIL, LADIES AND GENTLEMEN,

3814

02:11:27,412 --> 02:11:28,013

THANK YOU FOR THE OPPORTUNITY TO

3815

02:11:28,080 --> 02:11:28,447

ADDRESS YOU TODAY.

3816

02:11:28,513 --> 02:11:31,283

TO ACHIEVE THE OBJECTIVES OF

3817

02:11:31,350 --> 02:11:33,552

SPD1, WE MUST MOVE DELIBERATELY

3818

02:11:33,619 --> 02:11:34,586

AND EXPEDITIOUSLY.

3819

02:11:34,653 --> 02:11:35,654

IT IS A PRIORITY FOR OUR NATION

3820

02:11:35,721 --> 02:11:36,888

AND THAT HAS BEEN DEMONSTRATED

3821

02:11:36,955 --> 02:11:38,457

TODAY.

3822

02:11:38,523 --> 02:11:39,791

THE UNITED STATES MUST REMAIN

3823

02:11:39,858 --> 02:11:42,094

THE LEADER AND DRIVE THE

3824

02:11:42,160 --> 02:11:42,794

EVOLUTION OF THE RULES OF THE

3825

02:11:42,861 --> 02:11:44,129

ROAD AS WE PROGRESS FURTHER INTO

3826
02:11:44,196 --> 02:11:45,097
SPACE.

3827
02:11:45,163 --> 02:11:46,798
LET US NOT FORGET THAT IT WAS

3828
02:11:46,865 --> 02:11:48,934
THE UNITED STATES THAT LED THE

3829
02:11:49,001 --> 02:11:50,769
DEVELOPMENT OF COMMERCIAL AND

3830
02:11:50,836 --> 02:11:52,070
MILITARY AIRCRAFT ESTABLISHING

3831
02:11:52,137 --> 02:11:53,272
AND SUSTAINING THE AVIATION

3832
02:11:53,338 --> 02:11:56,275
MARKETPLACE OF TODAY.

3833
02:11:56,341 --> 02:11:58,910
OUR CHALLENGE FOR ALL

3834
02:11:58,977 --> 02:12:00,412
STAKEHOLDERS IN THE EXECUTIVE

3835
02:12:00,479 --> 02:12:01,913
BRANCH, CONGRESS, NASA, AND

3836
02:12:01,980 --> 02:12:04,316
INDUSTRY IS TO ASSESS AND ACCEPT

3837
02:12:04,383 --> 02:12:06,752
A RISK TO ACCOMPLISH OUR

3838
02:12:06,818 --> 02:12:07,686

DIFFICULT GOALS.

3839

02:12:07,753 --> 02:12:08,854

IT IS ABSOLUTELY PROPER THAT WE

3840

02:12:08,920 --> 02:12:10,155

SHOULD LEARN FROM THE MISTAKES

3841

02:12:10,222 --> 02:12:12,391

AND FAILURES OF THE PAST.

3842

02:12:12,457 --> 02:12:13,992

HOWEVER, WE CANNOT ALLOW THE

3843

02:12:14,059 --> 02:12:16,795

STAR TISSUE TO BIND US UP TO THE

3844

02:12:16,862 --> 02:12:18,730

POINT OF BEING UNABLE TO ACHIEVE

3845

02:12:18,797 --> 02:12:18,997

PROGRESS.

3846

02:12:19,064 --> 02:12:21,066

WE KNOW AND HAVE DEMONSTRATED

3847

02:12:21,133 --> 02:12:22,734

THAT THE BENEFIT OF EXPLORATION

3848

02:12:22,801 --> 02:12:25,470

IS WORTH THE RISK.

3849

02:12:25,537 --> 02:12:27,339

BASED ON MY EXPERIENCE, I WOULD

3850

02:12:27,406 --> 02:12:29,808

LIKE TO SUMMARIZE FIVE

3851
02:12:29,875 --> 02:12:31,810
ACTIONABLE AND CRUCIAL

3852
02:12:31,877 --> 02:12:32,110
SUGGESTIONS.

3853
02:12:32,177 --> 02:12:35,047
NUMBER ONE, THE STRATEGY,

3854
02:12:35,113 --> 02:12:35,947
OBJECTIVES AND NECESSARY FUNDING

3855
02:12:36,014 --> 02:12:37,582
MUST BE CLOSELY COORDINATED

3856
02:12:37,649 --> 02:12:39,584
ACROSS THE EXECUTIVE AND

3857
02:12:39,651 --> 02:12:41,887
LEGISLATIVE BRANCHES.

3858
02:12:41,953 --> 02:12:43,422
CONSTANT DEBATE OVER BUDGETS,

3859
02:12:43,488 --> 02:12:45,023
APPROACHES, GOALS AND PROGRAM

3860
02:12:45,090 --> 02:12:47,826
PLANS IMPEDE PROGRESS AND ADDS

3861
02:12:47,893 --> 02:12:50,262
UNNECESSARY RISK TO AN ALREADY

3862
02:12:50,329 --> 02:12:52,164
CHALLENGING EFFORT.

3863
02:12:52,230 --> 02:12:53,899

TWO, NASA SHOULD ALLOW PROGRAM

3864

02:12:53,965 --> 02:12:55,567

AND PROJECT MANAGERS WITH THE

3865

02:12:55,634 --> 02:12:57,302

ESSENTIAL INPUT OF TECHNICAL AND

3866

02:12:57,369 --> 02:12:58,670

SAFETY STAKEHOLDERS TO ACCEPT

3867

02:12:58,737 --> 02:13:00,372

MORE RISK AND MAKE DECISIONS

3868

02:13:00,439 --> 02:13:01,540

MORE QUICKLY.

3869

02:13:01,606 --> 02:13:03,642

THE TEAM MUST BE ALLOWED TO

3870

02:13:03,709 --> 02:13:05,677

ASSESS OPPORTUNITIES AND RISKS,

3871

02:13:05,744 --> 02:13:07,779

BE BOLD IN PURSUING THE

3872

02:13:07,846 --> 02:13:08,680

BENEFICIAL OPPORTUNITIES AND

3873

02:13:08,747 --> 02:13:09,981

MANAGE THE RISK TOWARDS

3874

02:13:10,048 --> 02:13:12,784

ACHIEVING THE PROGRAM GOALS.

3875

02:13:12,851 --> 02:13:14,519

THREE, THERE NEEDS TO BE CLEAR

3876

02:13:14,586 --> 02:13:16,421

ACCOUNTABILITY TO THE TOP OF THE

3877

02:13:16,488 --> 02:13:17,556

AGENCY FOR THE DEVELOPMENT OF

3878

02:13:17,622 --> 02:13:19,091

THE SYSTEMS AND TECHNOLOGIES

3879

02:13:19,157 --> 02:13:20,625

NEEDED FOR NASA'S IMPORTANT

3880

02:13:20,692 --> 02:13:21,993

ACTIVITIES.

3881

02:13:22,060 --> 02:13:23,595

THIS TEAM SHOULD HAVE DIRECT

3882

02:13:23,662 --> 02:13:25,630

ACCESS TO AGENCY LEADERSHIP AND

3883

02:13:25,697 --> 02:13:28,133

TIMELY ACCESS TO EXTERNAL

3884

02:13:28,200 --> 02:13:28,834

STAKEHOLDERS.

3885

02:13:28,900 --> 02:13:30,635

FOUR, IT IS ESSENTIAL THAT THE

3886

02:13:30,702 --> 02:13:32,237

BUREAUCRACY BE HELD ACCOUNTABLE

3887

02:13:32,304 --> 02:13:33,739

TO SUPPORT THE PROGRAMS AND

3888

02:13:33,805 --> 02:13:35,240

STRATEGY AND NOT IMPEDE

3889

02:13:35,307 --> 02:13:36,208

PROGRESS.

3890

02:13:36,274 --> 02:13:38,009

THE TEAM EXECUTING THE PROGRAM

3891

02:13:38,076 --> 02:13:39,211

SHOULD OBVIOUSLY BE HELD

3892

02:13:39,277 --> 02:13:41,413

ACCOUNTABLE TO ACHIEVE THE PLAN

3893

02:13:41,480 --> 02:13:42,647

AND THE TEAM SHOULD BE ALLOWED

3894

02:13:42,714 --> 02:13:44,683

TO WORK WITH MINIMAL

3895

02:13:44,750 --> 02:13:47,753

INTERFERENCE.

3896

02:13:47,819 --> 02:13:48,987

FIVE, TRANSPARENCY AND TRUST ARE

3897

02:13:49,054 --> 02:13:51,590

ESSENTIAL AND MUST BE

3898

02:13:51,656 --> 02:13:52,691

ESTABLISHED FOR THE LONG TERM.

3899

02:13:52,758 --> 02:13:54,426

EXPLORATION AND RESULTING

3900

02:13:54,493 --> 02:13:55,093

ECONOMIC OPPORTUNITIES REQUIRE

3901
02:13:55,160 --> 02:13:58,930
ALL STAKEHOLDERS AT THE TABLE BY

3902
02:13:58,997 --> 02:14:00,999
REGULARLY CONVENING STAKEHOLDERS

3903
02:14:01,066 --> 02:14:02,267
FROM ACROSS INDUSTRY, ACADEMIA

3904
02:14:02,334 --> 02:14:04,269
AND GOVERNMENT FOR FREQUENT

3905
02:14:04,336 --> 02:14:06,104
COMMUNICATION, PROBLEMS CAN BE

3906
02:14:06,171 --> 02:14:07,272
ANTICIPATED EARLY AND POTENTIAL

3907
02:14:07,339 --> 02:14:08,907
SOLUTIONS CAN BE IDENTIFIED.

3908
02:14:08,974 --> 02:14:11,743
IT IS TIME FOR US TO EXTEND THE

3909
02:14:11,810 --> 02:14:14,513
HUMAN NEIGHBORHOOD, FIRST TO THE

3910
02:14:14,579 --> 02:14:16,882
MOON IN 2024 AND THEN BEYOND.

3911
02:14:16,948 --> 02:14:18,083
THE UNITED STATES MUST LEAD, WE

3912
02:14:18,150 --> 02:14:21,119
MUST ACT QUICKLY, DECISIVELY,

3913
02:14:21,186 --> 02:14:23,288

PURPOSEFULLY, TO MAINTAIN THIS

3914

02:14:23,355 --> 02:14:23,622

LEADERSHIP.

3915

02:14:23,688 --> 02:14:24,856

I AM CONFIDENT THAT WE ARE UP TO

3916

02:14:24,923 --> 02:14:26,425

THE CHALLENGE.

3917

02:14:26,491 --> 02:14:27,626

AGAIN, THANK YOU FOR THE

3918

02:14:27,692 --> 02:14:28,727

OPPORTUNITY TO ADDRESS THE

3919

02:14:28,794 --> 02:14:29,428

NATIONAL SPACE COUNCIL.

3920

02:14:29,494 --> 02:14:30,462

I LOOK FORWARD TO YOUR

3921

02:14:30,529 --> 02:14:31,797

QUESTIONS.

3922

02:14:31,863 --> 02:14:32,998

>> THANK YOU SO MUCH, DAN.

3923

02:14:33,064 --> 02:14:33,498

WELL DONE.

3924

02:14:33,565 --> 02:14:42,908

[Applause]

3925

02:14:42,974 --> 02:14:50,081

WANDA SEEING AURE A NEARLY

3926

02:14:50,148 --> 02:14:52,083

40-YEAR CAREER FOR THE LOCKHEED

3927

02:14:52,150 --> 02:14:52,317

MARTIN.

3928

02:14:52,384 --> 02:14:55,120

AT THE CENTER OF THE SPACE

3929

02:14:55,187 --> 02:14:55,420

ENTERPRISE.

3930

02:14:55,487 --> 02:14:56,988

WE LOOK!ty FORWARD TO YOUR REM.

3931

02:14:57,055 --> 02:14:59,758

>> THANK YOU, VICE-PRESIDENT,

3932

02:14:59,825 --> 02:15:00,725

MEMBERS OF THE NATIONAL SPACE

3933

02:15:00,792 --> 02:15:01,493

COUNCIL, I'M HONORED TO ADDRESS

3934

02:15:01,560 --> 02:15:02,360

YOU TODAY.

3935

02:15:02,427 --> 02:15:03,695

FIVE AMERICAN FLAGS STAND ON THE

3936

02:15:03,762 --> 02:15:06,097

MOON TODAY.

3937

02:15:06,164 --> 02:15:08,600

REMINDERS OF WHAT IS POSSIBLE,

3938

02:15:08,667 --> 02:15:12,838

THEY'RE SEEN BY THE LUNAR

3939

02:15:12,904 --> 02:15:13,939
RECONNAISSANCE ORBITER, WE ARE

3940

02:15:14,005 --> 02:15:16,141
ALL CHILDREN OF THE APOLLO

3941

02:15:16,208 --> 02:15:16,374
MISSION.

3942

02:15:16,441 --> 02:15:20,111
IF WE CAN PUT A MAN ON THE MOON,

3943

02:15:20,178 --> 02:15:22,914
WHY CAN'T YOU DO ANYTHING THAT

3944

02:15:22,981 --> 02:15:26,618
YOU CAN IMAGINE.

3945

02:15:26,685 --> 02:15:27,419
APOLLO ENERGIZED A GENERATION

3946

02:15:27,486 --> 02:15:29,454
NOT JUST IN THE UNITED STATES

3947

02:15:29,521 --> 02:15:30,055
BUT AROUND THE WORLD.

3948

02:15:30,121 --> 02:15:32,157
EVERYONE WANTS TO PLAY IN

3949

02:15:32,224 --> 02:15:35,594
EXPLORATION AND THEY ARE.

3950

02:15:35,660 --> 02:15:37,896
IF AMERICA IS TO LEAD THE HUMAN

3951
02:15:37,963 --> 02:15:39,464
EXPLORATION ENDEAVOR, THE SPACE

3952
02:15:39,531 --> 02:15:41,099
OF ACCOMPLISHMENT IS IMPORTANT.

3953
02:15:41,166 --> 02:15:44,603
OVER THE LAST FEW YEARS, NASA

3954
02:15:44,669 --> 02:15:46,838
AND OUR CONTRACTOR COMMUNITY

3955
02:15:46,905 --> 02:15:47,506
HAVE ACCOMPLISHED AMAZING

3956
02:15:47,572 --> 02:15:47,839
THINGS.

3957
02:15:47,906 --> 02:15:50,141
THE ENERGY OF THE SPACE START-UP

3958
02:15:50,208 --> 02:15:51,276
COMMUNITY IS PALPABLE.

3959
02:15:51,343 --> 02:15:54,579
MUCH OF IT IS DRIVEN BY NASA'S

3960
02:15:54,646 --> 02:15:56,314
COMMERCIAL PAYLOAD LUNAR

3961
02:15:56,381 --> 02:15:58,116
SERVICES CONTRACT AND OTHER

3962
02:15:58,183 --> 02:15:59,851
CONTRACTS THAT USE

3963
02:15:59,918 --> 02:16:01,253

PUBLIC-PRIVATE PARTNERSHIPS.

3964

02:16:01,319 --> 02:16:02,821

I'M AWARE OF SEVERAL NEW

3965

02:16:02,888 --> 02:16:03,088

START-UPS.

3966

02:16:03,154 --> 02:16:05,457

THEY'RE BRINGING VENTURE CAPITAL

3967

02:16:05,524 --> 02:16:06,591

FUNDING INTO EXPLORATION.

3968

02:16:06,658 --> 02:16:08,193

ALL OF THIS IS DRIVEN BY THESE

3969

02:16:08,260 --> 02:16:10,595

NEW OPPORTUNITIES.

3970

02:16:10,662 --> 02:16:12,931

FOR TODAY'S CHALLENGE, I HAVE

3971

02:16:12,998 --> 02:16:13,698

SEEN RECENT STUDIES THAT

3972

02:16:13,765 --> 02:16:15,133

REEXAMINE THE HUMAN EXPLORATION

3973

02:16:15,200 --> 02:16:17,035

ARCHITECTURE WITH A VIEW TOWARDS

3974

02:16:17,102 --> 02:16:18,370

ACCELERATION, WITHOUT

3975

02:16:18,436 --> 02:16:20,272

SACRIFICING SAFETY, OR MAJOR

3976

02:16:20,338 --> 02:16:21,673

FUNCTIONALITY.

3977

02:16:21,740 --> 02:16:23,174

AND OF COURSE THE SPECIFICS WILL

3978

02:16:23,241 --> 02:16:28,113

BE ARGUABLE BUT THE LOGIC IS

3979

02:16:28,179 --> 02:16:28,713

CONSISTENT.

3980

02:16:28,780 --> 02:16:31,650

WE EXAMINE ACCEPTABLE RISK,

3981

02:16:31,716 --> 02:16:33,952

BALANCE EXECUTION AND SAFETY.

3982

02:16:34,019 --> 02:16:35,053

LEVERAGE EXISTING SYSTEMS AND

3983

02:16:35,120 --> 02:16:36,555

DEVELOP ONLY WHAT IS CRITICAL

3984

02:16:36,621 --> 02:16:39,090

WHILE SHEDDING UNNECESSARY

3985

02:16:39,157 --> 02:16:42,594

CHANGES AND UPGRADES.

3986

02:16:42,661 --> 02:16:44,629

LEVERAGE SIMPLER AND OPTIMIZED

3987

02:16:44,696 --> 02:16:48,333

GROUND TESTING.

3988

02:16:48,400 --> 02:16:49,968

PUBLIC-PRIVATE PARTNERSHIPS AS A

3989

02:16:50,035 --> 02:16:52,671

BASIS FOR ENABLES REDUCED PUBLIC

3990

02:16:52,737 --> 02:16:55,473

INVESTMENT ARE A PROVEN

3991

02:16:55,540 --> 02:16:57,108

METHODOLOGY BUT NONETHELESS,

3992

02:16:57,175 --> 02:16:58,310

SUCCESS WILL REQUIRE SIGNIFICANT

3993

02:16:58,376 --> 02:16:59,110

FUNDING, MANAGEMENT AND CAREFUL

3994

02:16:59,177 --> 02:17:02,247

PLANNING.

3995

02:17:02,314 --> 02:17:03,748

OUR TERRESTRIAL EXPERIENCES WITH

3996

02:17:03,815 --> 02:17:06,918

SUCCESSFUL PUBLIC-PRIVATE

3997

02:17:06,985 --> 02:17:07,986

PARTNERSHIPS SERVICE AND MODELS

3998

02:17:08,053 --> 02:17:11,623

FOR EXPLORATION AND NASA'S

3999

02:17:11,690 --> 02:17:12,257

PUBLIC-PRIVATE PARTNERSHIPS HAVE

4000

02:17:12,324 --> 02:17:14,125

HAD A HISTORY OF SUCCESS AND

4001
02:17:14,192 --> 02:17:15,627
TECHNOLOGY DEVELOPMENT BUT

4002
02:17:15,694 --> 02:17:18,363
INCENTIVIZING THE END MARKETS OF

4003
02:17:18,430 --> 02:17:19,064
COMMERCIALIZATION SHOULD ALSO BE

4004
02:17:19,130 --> 02:17:20,966
CONSIDERED AS A TOOL FOR

4005
02:17:21,032 --> 02:17:21,299
ACCELERATION.

4006
02:17:21,366 --> 02:17:23,768
EXAMPLES INCLUDE PROVIDING DATA

4007
02:17:23,835 --> 02:17:24,703
ON GUARANTEED GOVERNMENT

4008
02:17:24,769 --> 02:17:26,404
PROCURED SERVICES.

4009
02:17:26,471 --> 02:17:28,807
FOR EXAMPLE, ADVERTISING

4010
02:17:28,873 --> 02:17:31,042
PROCURED OXYGEN, BOTH PRICE AND

4011
02:17:31,109 --> 02:17:33,044
QUANTITY, OR PERHAPS FUEL OR

4012
02:17:33,111 --> 02:17:36,081
BANDWIDTH OR IMAGERY OR DATA

4013
02:17:36,147 --> 02:17:36,982

ANALYTICS, THEY'RE ALL

4014

02:17:37,048 --> 02:17:39,084

INCENTIVES THAT MIGHT BE USED TO

4015

02:17:39,150 --> 02:17:42,787

FUEL BUSINESS CASES.

4016

02:17:42,854 --> 02:17:44,623

IN CLOSING, I LOOK FORWARD TO

4017

02:17:44,689 --> 02:17:46,291

THE DAY WHEN LANDERS, HABITATS

4018

02:17:46,358 --> 02:17:47,225

AND COMMERCIAL ROVERS WILL JOIN

4019

02:17:47,292 --> 02:17:48,460

THE FIVE STANDING AMERICAN FLAGS

4020

02:17:48,526 --> 02:17:50,061

ON THE MOON.

4021

02:17:50,128 --> 02:17:50,462

THANK YOU.

4022

02:17:50,528 --> 02:17:56,801

[Applause]

4023

02:17:56,868 --> 02:17:57,902

>> I'M GOING TO GO TO SECRETARY

4024

02:17:57,969 --> 02:18:00,805

ROSS FOR THE OPENING QUESTION.

4025

02:18:00,872 --> 02:18:02,807

BUT LET ME THANK PROFESSOR

4026

02:18:02,874 --> 02:18:04,242

BARNES, THANK YOU FOR YOUR CALL

4027

02:18:04,309 --> 02:18:05,744

FOR ADEQUATE RESOURCES.

4028

02:18:05,810 --> 02:18:07,979

IT IS AN ADMONITION AND I HOPE

4029

02:18:08,046 --> 02:18:11,282

YOU HAVE GOT AN SENSE THAT WE

4030

02:18:11,349 --> 02:18:13,018

GET THAT, WE UNDERSTAND THAT.

4031

02:18:13,084 --> 02:18:14,719

I WANT THE PEOPLE HERE AT

4032

02:18:14,786 --> 02:18:18,223

MARSHALL TO UNDERSTAND THAT THIS

4033

02:18:18,289 --> 02:18:19,591

PRESIDENT, THIS ADMINISTRATION

4034

02:18:19,658 --> 02:18:21,026

IS DETERMINED TO WORK WITH THE

4035

02:18:21,092 --> 02:18:22,127

LEADERS IN CONGRESS TO MAKE SURE

4036

02:18:22,193 --> 02:18:23,828

WE HAVE THE RESOURCES TO SUPPORT

4037

02:18:23,895 --> 02:18:25,163

THE OBJECTIVES AND DAN, THANK

4038

02:18:25,230 --> 02:18:28,900

YOU FOR THAT ELOQUENT COMMENT

4039

02:18:28,967 --> 02:18:30,101

ABOUT NOT ALLOWING THE SCAR

4040

02:18:30,168 --> 02:18:31,436

TISSUE OF THE PAST TO BIND UP

4041

02:18:31,503 --> 02:18:34,639

OUR PROGRESS.

4042

02:18:34,706 --> 02:18:36,307

THAT IS A POWERFUL STATEMENT BUT

4043

02:18:36,374 --> 02:18:39,077

LET ME DIRECT MY QUESTION TO

4044

02:18:39,144 --> 02:18:42,080

WANDA IF I CAN.

4045

02:18:42,147 --> 02:18:43,448

YOU SAID YOU HAVE BEEN INVOLVED

4046

02:18:43,515 --> 02:18:43,982

IN THIS FOR A WHILE.

4047

02:18:44,049 --> 02:18:45,250

YOU'RE WATCHING VENTURE CAPITAL

4048

02:18:45,316 --> 02:18:46,718

NOW FLOWING INTO COMMERCIAL

4049

02:18:46,785 --> 02:18:49,154

SPACE ENTERPRISE, BUT BY THE

4050

02:18:49,220 --> 02:18:50,855

WAY, I THINK FIVE AMERICAN FLAGS

4051
02:18:50,922 --> 02:18:52,090
WOULD BE A GREAT TITLE OF A

4052
02:18:52,157 --> 02:18:52,791
BOOK.

4053
02:18:52,857 --> 02:18:56,361
[Laughter]

4054
02:18:56,428 --> 02:18:57,495
IT'S TIME FOR THE SIXTH,

4055
02:18:57,562 --> 02:18:59,831
SEVENTH, EIGHTH, AND NINTH

4056
02:18:59,898 --> 02:19:00,832
AMERICAN FLAG TO BE ON THE MOON.

4057
02:19:00,899 --> 02:19:04,135
[Applause]

4058
02:19:05,637 --> 02:19:04,803
VERY ELOQUENT.

4059
02:19:05,704 --> 02:19:07,072
YOU SAID THE PACE OF

4060
02:19:07,138 --> 02:19:08,273
ACCOMPLISHMENT IS IMPORTANT, AND

4061
02:19:08,339 --> 02:19:12,811
THE PRESIDENT HAS SET OUT A VERY

4062
02:19:12,877 --> 02:19:15,380
CLEAR GOAL FOR PUTTING AN

4063
02:19:15,447 --> 02:19:16,715

AMERICAN ASTRONAUT BACK ON THE

4064

02:19:16,781 --> 02:19:20,652

MOON WITHIN THE NEXT FIVE YEARS.

4065

02:19:20,719 --> 02:19:21,653

CAN YOU UNPACK THAT A LITTLE BIT

4066

02:19:21,720 --> 02:19:22,454

FOR THE COUNCIL BECAUSE IT

4067

02:19:22,520 --> 02:19:26,491

SEEMED TO ME YOU WERE AFFIRMING

4068

02:19:26,558 --> 02:19:29,627

THE NEED FOR US TO BE MOVING OUT

4069

02:19:29,694 --> 02:19:31,229

AND MOVING RAPIDLY.

4070

02:19:31,296 --> 02:19:32,897

>> YES, SIR,

4071

02:19:32,964 --> 02:19:33,364

Mr. VICE-PRESIDENT.

4072

02:19:33,431 --> 02:19:35,133

ABSOLUTELY.

4073

02:19:35,200 --> 02:19:38,770

I AM FOOT STOMPING THE

4074

02:19:38,837 --> 02:19:40,572

PRESIDENT'S MANDATE FOR BOOTS ON

4075

02:19:40,638 --> 02:19:42,273

THE MOON BY 2025.

4076
02:19:42,340 --> 02:19:44,042
I HAVE SEEN STUDIES THAT SHOW IT

4077
02:19:44,109 --> 02:19:47,112
IS POSSIBLE TO PUT A LANDER BY

4078
02:19:47,178 --> 02:19:49,647
2022.

4079
02:19:49,714 --> 02:19:51,549
AND THEN MOVE FORWARD WITH

4080
02:19:51,616 --> 02:19:54,652
CERTAIN PACE TO SUPPORT

4081
02:19:54,719 --> 02:19:58,623
ACCELERATED LANDING.

4082
02:19:58,690 --> 02:20:00,091
UNPACKING IT WOULD REQUIRE

4083
02:20:00,158 --> 02:20:02,127
PROBABLY MANY OF THE STEPS THAT

4084
02:20:02,193 --> 02:20:03,528
NASA IS ALREADY UNDERTAKING AND

4085
02:20:03,595 --> 02:20:05,630
LOOKING AT THE EXECUTION

4086
02:20:05,697 --> 02:20:06,464
MILESTONES THAT EXIST, BUT SOME

4087
02:20:06,531 --> 02:20:10,301
OF THE THINGS THAT MIGHT BE

4088
02:20:10,368 --> 02:20:12,370

CONSIDERED WOULD BE PERHAPS AN

4089

02:20:12,437 --> 02:20:14,305

EARLY LUNAR GATEWAY, THAT WAS

4090

02:20:14,372 --> 02:20:15,206

CONSIDERED TO BE SOMETHING THAT

4091

02:20:15,273 --> 02:20:16,608

FIRST OF ALL THE GATEWAY IS

4092

02:20:16,674 --> 02:20:17,408

ABSOLUTELY REQUIRED.

4093

02:20:17,475 --> 02:20:18,810

THE SPACE LAUNCH SYSTEM IS

4094

02:20:18,877 --> 02:20:20,044

ABSOLUTELY REQUIRED BUT HOW WE

4095

02:20:20,111 --> 02:20:21,446

EXECUTE AND WHAT WE CONSIDER TO

4096

02:20:21,513 --> 02:20:25,183

BE MANDATORY ELEMENTS OF THAT

4097

02:20:25,250 --> 02:20:26,084

PROGRAM COULD PROBABLY STAND A

4098

02:20:26,151 --> 02:20:29,287

BIT MORE RE-EXAMINATION AND THE

4099

02:20:29,354 --> 02:20:31,289

VALUATION OF THE TOTAL CRITICAL

4100

02:20:31,356 --> 02:20:33,057

PATH OF THE TASK, FOR WHAT'S

4101
02:20:33,124 --> 02:20:34,125
ABSOLUTELY REQUIRED FOR THAT

4102
02:20:34,192 --> 02:20:37,228
FIVE OF SIX-YEAR TARGET,

4103
02:20:37,295 --> 02:20:38,363
BREAKING DOWN AND ASSESSING WHAT

4104
02:20:38,429 --> 02:20:40,064
ARE SOME OF THE KEY ELEMENTS

4105
02:20:40,131 --> 02:20:41,266
THAT WILL BE BUILT AND USED WILL

4106
02:20:41,332 --> 02:20:42,600
BE PART OF THE STORY THAT ALLOWS

4107
02:20:42,667 --> 02:20:46,905
FOR SUCCESS.

4108
02:20:46,971 --> 02:20:48,807
THERE'S A POTENTIAL TO REUSE

4109
02:20:48,873 --> 02:20:49,841
SOME OF THE DESIGN PERHAPS

4110
02:20:49,908 --> 02:20:50,809
ASSOCIATED WITH THINGS WE'VE

4111
02:20:50,875 --> 02:20:52,710
ALREADY DEMONSTRATED.

4112
02:20:52,777 --> 02:20:55,146
THE LUNAR LANDER COULD LOOK VERY

4113
02:20:55,213 --> 02:20:57,916

SIMILAR TO WHAT WE'VE ALREADY

4114

02:20:57,982 --> 02:20:58,750

DEMONSTRATED WITH INSIGHT ON

4115

02:20:58,817 --> 02:21:01,986

MARS, FOR EXAMPLE, USING THE

4116

02:21:02,053 --> 02:21:04,689

PROPULSION, THE PPE, THE

4117

02:21:04,756 --> 02:21:05,523

PROPULSION ELEMENT THAT'S GOING

4118

02:21:05,590 --> 02:21:07,225

TO BE BUILT BY NASA COULD BE

4119

02:21:07,292 --> 02:21:09,961

PART OF AN OVERLANDING

4120

02:21:10,028 --> 02:21:10,795

CONFIGURATION, FOR EXAMPLE.

4121

02:21:10,862 --> 02:21:12,363

THERE ARE MEANS FOR US TO REUSE

4122

02:21:12,430 --> 02:21:14,332

WHAT IS ALREADY IN OUR ARSENAL,

4123

02:21:14,399 --> 02:21:15,800

BOTH KNOWLEDGE AND HARDWARE.

4124

02:21:15,867 --> 02:21:16,401

>> GREAT.

4125

02:21:16,467 --> 02:21:19,904

THAT'S A GREAT ANSWER.

4126
02:21:19,971 --> 02:21:21,306
MAYBE, JIM, WE COULD GET HER TO

4127
02:21:21,372 --> 02:21:23,308
WRITE THAT UP ONCE WE GET THE

4128
02:21:23,374 --> 02:21:26,878
TRANSCRIPT.

4129
02:21:26,945 --> 02:21:28,479
BUT VERY JUST INSPIRING WORDS.

4130
02:21:28,546 --> 02:21:30,381
LET ME GO TO SECRETARY ROSS AND

4131
02:21:30,448 --> 02:21:34,219
WE'LL BE VERY SENSITIVE TO TIME

4132
02:21:34,285 --> 02:21:34,485
HERE.

4133
02:21:34,552 --> 02:21:36,688
FOR EVERYONE LOOKING ON, WE'RE

4134
02:21:36,754 --> 02:21:38,089
GOING TO MOVE THROUGH A COUPLE

4135
02:21:38,156 --> 02:21:39,624
QUESTIONS REALLY QUICKLY THROUGH

4136
02:21:39,691 --> 02:21:41,326
RECOMMENDATIONS AND WE'LL WRAP

4137
02:21:41,392 --> 02:21:42,260
UP.

4138
02:21:42,327 --> 02:21:42,493

WILBUR.

4139

02:21:42,560 --> 02:21:44,562

>> THANK YOU.

4140

02:21:44,629 --> 02:21:45,897

I'M FASCINATED AT THE IDEA OF

4141

02:21:45,964 --> 02:21:51,803

THE MOON AS AS A REFUELING

4142

02:21:51,870 --> 02:21:52,036

STATION.

4143

02:21:52,103 --> 02:21:55,540

I'M CURIOUS, Dr. BARNES, ABOUT

4144

02:21:55,607 --> 02:21:57,642

WHAT IS A THEORETICAL APPROACH.

4145

02:21:57,709 --> 02:21:59,978

YOU SAID TAKING ABSOLUTE ZERO

4146

02:22:00,044 --> 02:22:01,613

PLUS 40 OR MAKING IT EITHER INTO

4147

02:22:01,679 --> 02:22:02,881

WATER OR BREAKING IT DOWN INTO

4148

02:22:02,947 --> 02:22:05,116

THE HYDROGEN AND OXYGEN.

4149

02:22:05,183 --> 02:22:06,618

>> THAT'S A GREAT QUESTION,

4150

02:22:06,684 --> 02:22:07,619

SECRETARY ROSS AND A LOT ABOUT

4151
02:22:07,685 --> 02:22:08,853
THAT WE DON'T UNDERSTAND.

4152
02:22:08,920 --> 02:22:10,054
FIRST OF ALL, WE DON'T

4153
02:22:10,121 --> 02:22:15,026
UNDERSTAND WHAT THE WATER ICE

4154
02:22:15,093 --> 02:22:16,227
LOOKS LIKE BELOW THE SURFACE.

4155
02:22:16,294 --> 02:22:20,698
IS IT MIXED FINELY WITH THE

4156
02:22:20,765 --> 02:22:28,907
LUNARRIN REGALIF OR IS IT IN BLS

4157
02:22:28,973 --> 02:22:29,474
OF EYES.

4158
02:22:29,540 --> 02:22:30,074
BOTH REQUIRE DIFFERENT

4159
02:22:30,141 --> 02:22:31,075
TECHNIQUES TO EXTRACT.

4160
02:22:31,142 --> 02:22:32,877
NUMBER TWO, THE WAY WE MAKE

4161
02:22:32,944 --> 02:22:33,711
ROCKET FUEL TODAY ON THE GROUND

4162
02:22:33,778 --> 02:22:34,879
IS NOT FROM WATER.

4163
02:22:34,946 --> 02:22:37,015

WHAT WE'RE TALKING ABOUT IS A

4164

02:22:37,081 --> 02:22:37,715

FUNDAMENTALLY DIFFERENT

4165

02:22:37,782 --> 02:22:38,416

APPROACH.

4166

02:22:38,483 --> 02:22:40,351

SO INDEED THERE'S A LOT OF

4167

02:22:40,418 --> 02:22:42,253

EXCITEMENT ABOUT THE POTENTIAL,

4168

02:22:42,320 --> 02:22:45,556

PARTICULARLY ECONOMIC POTENTIAL,

4169

02:22:45,623 --> 02:22:46,691

FOR DEVELOPING FUEL MINED FROM

4170

02:22:46,758 --> 02:22:49,594

THE MOON BUT THERE'S MUCH WE

4171

02:22:49,661 --> 02:22:50,595

NEED TO UNDERSTAND FIRST.

4172

02:22:50,662 --> 02:22:52,297

AND SO THAT'S WHY AS I WAS

4173

02:22:52,363 --> 02:22:54,032

SAYING A FEW MINUTES AGO, WE

4174

02:22:54,098 --> 02:22:57,135

NEED TO BEGIN QUICKLY WITH A

4175

02:22:57,201 --> 02:22:59,270

ROBOTIC MISSION TO UNDERSTAND

4176
02:22:59,337 --> 02:23:02,307
THE NATURE OF THAT WATER ICE.

4177
02:23:02,373 --> 02:23:04,309
>> THANK YOU.

4178
02:23:04,375 --> 02:23:07,712
>> THANK YOU, Mr. SECRETARY.

4179
02:23:07,779 --> 02:23:10,615
JIM, THEY BROUGHT UP BUDGETING.

4180
02:23:10,682 --> 02:23:13,318
YOUR COMMENTS OR QUESTIONS FOR

4181
02:23:13,384 --> 02:23:16,788
THE PANEL FROM OFFICE MANAGER

4182
02:23:16,854 --> 02:23:17,989
FOR THE BUDGET.

4183
02:23:18,056 --> 02:23:19,123
>> COMMERCIALIZATION HAS BEEN

4184
02:23:19,190 --> 02:23:21,793
MENTIONED SEVERAL TIMES BY THE

4185
02:23:21,859 --> 02:23:23,027
PANELISTS, BY REMARKS OF MEMBERS

4186
02:23:23,094 --> 02:23:23,861
OF THE SPACE COUNCIL.

4187
02:23:23,928 --> 02:23:26,431
COULD YOU GIVE ME AN IDEA ON

4188
02:23:26,497 --> 02:23:28,333

WHERE YOU SEE THE NEXT BIG

4189

02:23:28,399 --> 02:23:29,233

OPPORTUNITY FOR

4190

02:23:29,300 --> 02:23:29,867

COMMERCIALIZATION AND

4191

02:23:29,934 --> 02:23:40,411

PARTNERSHIPS IN SPACE.

4192

02:23:40,478 --> 02:23:43,815

>> I THINK THE NEXT BIG

4193

02:23:43,881 --> 02:23:45,917

OPPORTUNITIES FROM MY

4194

02:23:45,984 --> 02:23:46,551

PERSPECTIVE, PERSONAL OPINION,

4195

02:23:46,617 --> 02:23:48,753

IS GOING TO BE HELPING WITH THE

4196

02:23:48,820 --> 02:23:49,554

LOGISTICS TRAIN THAT FOLLOWS AS

4197

02:23:49,620 --> 02:23:51,956

WE MOVED AND EXTEND OUT, THERE

4198

02:23:52,023 --> 02:23:54,158

ARE SERVICES REQUIRED IN TERMS

4199

02:23:54,225 --> 02:23:56,728

OF TRANSPORTATION AND OPERATIONS

4200

02:23:56,794 --> 02:24:00,331

THAT CAN BE FULFILLED BY THE

4201
02:24:00,398 --> 02:24:01,232
COMMERCIAL PRIVATE ENTERPRISE

4202
02:24:01,299 --> 02:24:03,634
SYSTEM AND WE OUGHT TO ALLOW

4203
02:24:03,701 --> 02:24:05,269
THAT TO HAPPEN AND WE OUGHT TO

4204
02:24:05,336 --> 02:24:07,071
AS WE LOOK AT HOW WE APPROACH

4205
02:24:07,138 --> 02:24:08,906
THIS AND MOVE FURTHER OUT WE

4206
02:24:08,973 --> 02:24:11,676
OUGHT TO LOOK FOR THOSE

4207
02:24:11,743 --> 02:24:13,111
OPPORTUNITIES THAT WE CAN MAKE

4208
02:24:13,177 --> 02:24:14,612
AND GET COMMERCIAL PRIVATE

4209
02:24:14,679 --> 02:24:15,313
ENTERPRISE TO PARTICIPATE IN

4210
02:24:15,380 --> 02:24:17,181
THAT WE HAVEN'T EVEN THOUGHT OF

4211
02:24:17,248 --> 02:24:23,855
AT THIS POINT.

4212
02:24:23,921 --> 02:24:28,426
>> -- SEEMS ONE THAT'S ALREADY

4213
02:24:28,493 --> 02:24:28,993

BEING DEMONSTRATED BY NASA.

4214

02:24:29,060 --> 02:24:30,595

THE ECLIPSE PROGRAM AS I

4215

02:24:30,661 --> 02:24:32,330

MENTIONED EARLIER IS ONE THAT

4216

02:24:32,397 --> 02:24:33,331

SPOKE TO CAPABILITY FOR A NUMBER

4217

02:24:33,398 --> 02:24:34,932

OF FOLKS IN THE COMMERCIAL

4218

02:24:34,999 --> 02:24:36,167

ARENAS TO PULL TOGETHER

4219

02:24:36,234 --> 02:24:38,870

SOLUTIONS FOR SMALL LANDERS.

4220

02:24:38,936 --> 02:24:42,006

THE ACCELERATION OF PROCUREMENT

4221

02:24:42,073 --> 02:24:43,708

ACTIVITIES SEEMS TO BE JUST AS

4222

02:24:43,775 --> 02:24:44,709

ENERGIZING AS THE OPPORTUNITY TO

4223

02:24:44,776 --> 02:24:45,710

PLAY.

4224

02:24:45,777 --> 02:24:49,047

SO A CONTINUATION WITH PERHAPS

4225

02:24:49,113 --> 02:24:50,948

OPPORTUNITIES TO BID ON

4226
02:24:51,015 --> 02:24:52,717
CERTAINLY HUMAN LANDERS ARE OUT

4227
02:24:52,784 --> 02:24:54,685
THERE NOW BUT MEDIUM-SIZED

4228
02:24:54,752 --> 02:24:57,088
LANDERS, ALL THE HARDWARE THAT

4229
02:24:57,155 --> 02:25:01,926
HAS SOME POTENTIAL FOR A

4230
02:25:01,993 --> 02:25:03,327
POTENTIAL SEAT ON THE MOON

4231
02:25:03,394 --> 02:25:05,029
SHOULD BE ANNOUNCED AS SOON AS

4232
02:25:05,096 --> 02:25:06,130
POSSIBLE WITH OPPORTUNITIES FOR

4233
02:25:06,197 --> 02:25:08,966
PEOPLE WITH VARIED IDEAS AND

4234
02:25:09,033 --> 02:25:10,301
SOLUTIONS TO PERHAPS IF NOT

4235
02:25:10,368 --> 02:25:16,507
DEVELOP A BID ON THEIR OWN, FORM

4236
02:25:16,574 --> 02:25:17,442
CONSORTIUMS IN ORDER TO PROVIDE

4237
02:25:17,508 --> 02:25:18,109
A SOLUTION.

4238
02:25:18,176 --> 02:25:20,745

>> THANK YOU.

4239

02:25:20,812 --> 02:25:21,179

>> VERY GOOD.

4240

02:25:21,245 --> 02:25:23,748

ADMINISTRATOR BRIDENSTINE.

4241

02:25:23,815 --> 02:25:24,682

>> YES, SIR,

4242

02:25:24,749 --> 02:25:25,116

Mr. VICE-PRESIDENT.

4243

02:25:25,183 --> 02:25:26,250

CAN YOU HEAR ME?

4244

02:25:26,317 --> 02:25:26,484

OKAY.

4245

02:25:26,551 --> 02:25:28,419

GOOD.

4246

02:25:28,486 --> 02:25:29,854

COUPLE OF THINGS.

4247

02:25:29,921 --> 02:25:34,025

I GUESS FOR DAN TO START, YOU'RE

4248

02:25:34,092 --> 02:25:36,294

A PROGRAM MANAGER HISTORICALLY

4249

02:25:36,360 --> 02:25:38,062

FOR NASA.

4250

02:25:38,129 --> 02:25:38,963

YOUR REPUTATION IS EXCEPTIONAL

4251
02:25:39,030 --> 02:25:39,764
IF THAT AREA.

4252
02:25:39,831 --> 02:25:41,799
COULD YOU SHARE WITH US KIND OF

4253
02:25:41,866 --> 02:25:44,102
HOW A LARGE PROJECT HAS A

4254
02:25:44,168 --> 02:25:47,004
SPENDING CYCLE AND ULTIMATELY

4255
02:25:47,071 --> 02:25:49,240
HOW MULTI-YEAR APPROPRIATIONS OR

4256
02:25:49,307 --> 02:25:51,042
MORE THAN TWO-YEAR

4257
02:25:51,109 --> 02:25:52,076
APPROPRIATIONS COULD BE HELPFUL

4258
02:25:52,143 --> 02:25:53,678
AND I SAY THIS BECAUSE THE

4259
02:25:53,744 --> 02:25:54,879
VICE-PRESIDENT IN HIS SPEECH

4260
02:25:54,946 --> 02:25:58,282
EARLIER, HE SAID BY ANY MEANS

4261
02:25:58,349 --> 02:26:00,418
NECESSARY, AND TO ME, THAT MEANS

4262
02:26:00,485 --> 02:26:02,320
SOME OF THE CAPABILITIES THAT

4263
02:26:02,386 --> 02:26:04,455

ARE WITHIN THE DEPARTMENT OF

4264

02:26:04,522 --> 02:26:06,057

DEFENSE WE NEED TO CONSIDER

4265

02:26:06,124 --> 02:26:07,158

BRINGING IN TO NASA.

4266

02:26:07,225 --> 02:26:09,260

SO IF YOU COULD JUST TALK FOR A

4267

02:26:09,327 --> 02:26:13,698

SECOND ABOUT THE SPENDING FLOWS

4268

02:26:13,764 --> 02:26:18,302

FOR A LARGE PROJECT AND HOW

4269

02:26:18,369 --> 02:26:20,805

MULTI-YEAR PROCUREMENT OR

4270

02:26:20,872 --> 02:26:22,273

APPROPRIATIONS COULD BE HELPFUL.

4271

02:26:22,340 --> 02:26:24,075

>> I HAVE LONG SOUGHT THE ANSWER

4272

02:26:24,142 --> 02:26:25,409

FOR THIS.

4273

02:26:25,476 --> 02:26:27,512

DURING THE TYPICAL PROGRAM LIFE

4274

02:26:27,578 --> 02:26:29,547

CYCLE YOU HAVE THE EARLY

4275

02:26:29,614 --> 02:26:30,748

REQUIREMENTS, CONCEPT

4276
02:26:30,815 --> 02:26:32,250
DEVELOPMENT, ENGINEERING, AND AS

4277
02:26:32,316 --> 02:26:34,952
YOU PROCEED INTO FULL-SCALE

4278
02:26:35,019 --> 02:26:37,088
DETAILED DESIGN, THE WORK FORCE

4279
02:26:37,155 --> 02:26:38,689
INCREASES, THE HARDWARE

4280
02:26:38,756 --> 02:26:39,824
INCREASES, THEREFORE THE COST

4281
02:26:39,891 --> 02:26:40,124
INCREASES.

4282
02:26:40,191 --> 02:26:42,593
THEN AS YOU GET INTO TESTS, THEN

4283
02:26:42,660 --> 02:26:43,394
IT TAILS OFF.

4284
02:26:43,461 --> 02:26:44,896
THE CHALLENGE ON THESE MAJOR

4285
02:26:44,962 --> 02:26:46,998
PROGRAMS IS THAT WHEN YOU ARE

4286
02:26:47,064 --> 02:26:48,633
DEALING WITH ANNUAL

4287
02:26:48,699 --> 02:26:51,736
APPROPRIATION CYCLES, YOU GET

4288
02:26:51,802 --> 02:26:54,772

INTO ANNUAL REPLANS, CONSTANT

4289

02:26:54,839 --> 02:26:56,174

PLANNING, CONSTANT REPLANNING,

4290

02:26:56,240 --> 02:26:58,176

PARTICULARLY AS YOU GET INTO THE

4291

02:26:58,242 --> 02:27:00,211

CONTINUING RESOLUTIONS AND ALL

4292

02:27:00,278 --> 02:27:02,513

THOSE KINDS OF FUN THINGS.

4293

02:27:02,580 --> 02:27:05,316

THE POINT HERE IS THAT WITH

4294

02:27:05,383 --> 02:27:06,851

OPPORTUNITIES AND OTHER MODELS

4295

02:27:06,918 --> 02:27:09,453

THAT EXIST, THAT PROVIDE FUNDING

4296

02:27:09,520 --> 02:27:11,689

LIKE WAS DONE FOR THE ENDEAVOUR

4297

02:27:11,756 --> 02:27:14,192

ORBITER AS WE CLAIM OUT OF

4298

02:27:14,258 --> 02:27:15,693

COLUMBIA OR CAME OUT OF

4299

02:27:15,760 --> 02:27:16,861

CHALLENGER WAS THE AGENCY WAS

4300

02:27:16,928 --> 02:27:18,095

PROVIDED THE FUNDING TO GO

4301

02:27:18,162 --> 02:27:20,031

EXECUTE THAT ORBITER.

4302

02:27:20,097 --> 02:27:24,235

WE CALLED IT NO YOUR FUNDING AND

4303

02:27:24,302 --> 02:27:27,672

THEN WE WERE ALLOWED TO GO

4304

02:27:27,738 --> 02:27:28,673

EXECUTE AND THE PROGRAM FUNDING

4305

02:27:28,739 --> 02:27:29,674

WAS ALLOWED TO MAKE THE TRADES

4306

02:27:29,740 --> 02:27:31,609

WE NEEDED TO MAKE, IT GAVE THEM

4307

02:27:31,676 --> 02:27:32,810

SOME MARGIN BOTH IN TERMS OF

4308

02:27:32,877 --> 02:27:34,011

TIMING AND IN TERMS OF FUNDING

4309

02:27:34,078 --> 02:27:35,213

AVAILABILITY TO GO DO WHAT WE

4310

02:27:35,279 --> 02:27:36,714

NEEDED TO GO DO.

4311

02:27:36,781 --> 02:27:38,649

THAT KIND OF MODEL WOULD BE

4312

02:27:38,716 --> 02:27:39,850

EXTREMELY HELPFUL FOR THE

4313

02:27:39,917 --> 02:27:41,352

PROGRAM MANAGERS.

4314

02:27:41,419 --> 02:27:44,689

IT WOULD ALLOW US TO PUT A PLAN

4315

02:27:44,755 --> 02:27:48,893

IN PLACE, GET THE RIGHT BUY-OFF

4316

02:27:48,960 --> 02:27:50,628

ON THE PLAN AND EXECUTE THE

4317

02:27:50,695 --> 02:27:50,828

PLAN.

4318

02:27:50,895 --> 02:27:52,330

THAT WOULD BE EXTREMELY

4319

02:27:52,396 --> 02:27:55,833

BENEFICIAL AND MAKE IT MUCH LESS

4320

02:27:55,900 --> 02:27:58,069

RISKY, FRANKLY, IT WOULD TAKE

4321

02:27:58,135 --> 02:27:59,870

SOME RISK OUT OF THE EQUATION

4322

02:27:59,937 --> 02:28:01,706

AND ALLOWS HIGHER PROBABILITY OF

4323

02:28:01,772 --> 02:28:03,741

SUCCESS ON ACHIEVING THE PROGRAM

4324

02:28:03,808 --> 02:28:04,642

GOALS.

4325

02:28:04,709 --> 02:28:10,348

[Applause]

4326

02:28:10,414 --> 02:28:15,386

>> GO AHEAD, JIM.

4327

02:28:15,453 --> 02:28:16,087

>> Dr. BARNES, ONE THING THAT

4328

02:28:16,153 --> 02:28:18,189

I THINK IS IMPORTANT, WE'VE

4329

02:28:18,256 --> 02:28:19,323

LEARNED PAINFUL LESSONS IN

4330

02:28:19,390 --> 02:28:19,590

HISTORY.

4331

02:28:19,657 --> 02:28:22,827

ONE OF THOSE LESSONS, I SAY THIS

4332

02:28:22,893 --> 02:28:25,229

BECAUSE I KNOW JIM HERS IS HERE

4333

02:28:25,296 --> 02:28:26,564

AND I WANT TO YOU HEAR THIS.

4334

02:28:26,631 --> 02:28:27,865

ONE OF THE LESSONS IS WHEN WE

4335

02:28:27,932 --> 02:28:28,966

HAVE A BIG OBJECTIVE THAT WE'RE

4336

02:28:29,033 --> 02:28:32,803

TRYING TO ACHIEVE, AND IN ORDER

4337

02:28:32,870 --> 02:28:35,506

TO ACHIEVE IT, WE CANNIBALIZE

4338

02:28:35,573 --> 02:28:37,041

OTHER PARTS OF THE AGENCY,

4339

02:28:37,108 --> 02:28:39,076

NAMELY THE SCIENCE MISSION

4340

02:28:39,143 --> 02:28:39,944

DIRECTORATE IN ORDER TO ACHIEVE

4341

02:28:40,011 --> 02:28:42,880

THE EXPLORATION AGENDA, IT

4342

02:28:42,947 --> 02:28:44,081

DOESN'T WORK OUT.

4343

02:28:44,148 --> 02:28:46,284

CAN YOU SHARE WITH US KIND OF

4344

02:28:46,350 --> 02:28:47,184

THE CHALLENGE WITH THAT

4345

02:28:47,251 --> 02:28:48,919

ACTIVITY.

4346

02:28:48,986 --> 02:28:49,186

>> YEAH.

4347

02:28:49,253 --> 02:28:52,857

THANK YOU FOR THAT QUESTION.

4348

02:28:52,923 --> 02:28:54,558

BECAUSE THIS IS A VERY SENSITIVE

4349

02:28:54,625 --> 02:28:56,360

ISSUE AMONG MY SCIENCE

4350

02:28:56,427 --> 02:28:58,162

COLLEAGUES THAT I'M OFTEN ASKED

4351
02:28:58,229 --> 02:28:59,563
ABOUT THE BALANCE BETWEEN THE

4352
02:28:59,630 --> 02:29:04,402
HUMAN PROGRAM AND THE SCIENCE

4353
02:29:04,468 --> 02:29:06,404
PROGRAM, AND WE LIKE TO THINK

4354
02:29:06,470 --> 02:29:07,638
ABOUT IN MOVING FORWARD NOW,

4355
02:29:07,705 --> 02:29:08,939
PARTICULARLY TO THE MOON THAT

4356
02:29:09,006 --> 02:29:15,980
THERE IS IS A SYNERGY BETWEEN E

4357
02:29:16,047 --> 02:29:17,281
TWO WE HAVEN'T EXPERIENCED

4358
02:29:17,348 --> 02:29:17,515
BEFORE.

4359
02:29:17,581 --> 02:29:19,116
IN ORDER TO EXPLORE THE MOON YOU

4360
02:29:19,183 --> 02:29:20,284
HAVE TO BRING SCIENTISTS, YOU

4361
02:29:20,351 --> 02:29:21,719
HAVE TO BRING A SCIENCE AGENDA

4362
02:29:21,786 --> 02:29:25,823
BUT IN THE PAST, WHEN FUNDS HAVE

4363
02:29:25,890 --> 02:29:28,059

BEEN REALLOCATED FROM SCIENCE TO

4364

02:29:28,125 --> 02:29:28,626

EXPLORATION AND THEY HAVE

4365

02:29:28,693 --> 02:29:29,994

HAPPENED A FEW TIMES IN THE

4366

02:29:30,061 --> 02:29:33,931

PAST, IT'S BEEN DEVASTATING.

4367

02:29:33,998 --> 02:29:37,335

AND WE LOOK AT THE DECADAL

4368

02:29:37,401 --> 02:29:39,570

SURVEY IN ASTROPHYSICS,

4369

02:29:39,637 --> 02:29:42,073

PLANETARY SCIENCE, EARTH SCIENCE

4370

02:29:42,139 --> 02:29:43,674

AND HELIOPHYSICS AS REALLY OUR

4371

02:29:43,741 --> 02:29:44,675

GUIDE TO WHAT WE WANT TO DO.

4372

02:29:44,742 --> 02:29:45,876

IN THE LAST DECADE, FOR EXAMPLE,

4373

02:29:45,943 --> 02:29:49,213

WE'VE NOT BEEN ABLE TO EXECUTE

4374

02:29:49,280 --> 02:29:50,848

MUCH OF WHAT WAS IN THE DECADAL

4375

02:29:50,915 --> 02:29:55,052

SURVEY.

4376

02:29:55,119 --> 02:29:55,653

THE JAMES WEBB SPACE TELESCOPE

4377

02:29:55,720 --> 02:29:57,755

WHICH IS GETTING CLOSE TO

4378

02:29:57,822 --> 02:29:59,990

LAUNCH, IS WELL OVER BUDGET FROM

4379

02:30:00,057 --> 02:30:02,093

WHAT WAS ORIGINALLY PLANNED AND

4380

02:30:02,159 --> 02:30:02,693

OVER TIME.

4381

02:30:02,760 --> 02:30:04,095

AND A NUMBER OF OTHER THINGS

4382

02:30:04,161 --> 02:30:05,830

MORE MODEST THINGS HAVE NOT BEEN

4383

02:30:05,896 --> 02:30:06,731

MADE AVAILABLE.

4384

02:30:06,797 --> 02:30:08,366

SO AMONG THE THINGS THAT OUR

4385

02:30:08,432 --> 02:30:09,233

SCIENCE COLLEAGUES ARE DOING IS

4386

02:30:09,300 --> 02:30:11,569

THIS NEXT SET OF DECADAL SURVEYS

4387

02:30:11,635 --> 02:30:14,872

IS ARE THERE MORE MODEST FEWER

4388

02:30:14,939 --> 02:30:17,408

FLAGSHIPS AND MORE INDIVIDUAL

4389

02:30:17,475 --> 02:30:18,709

MISSIONS THAT WE CAN DO THAT

4390

02:30:18,776 --> 02:30:20,711

WILL ADVANCE THE SCIENCE WITHOUT

4391

02:30:20,778 --> 02:30:21,812

BUSTING THE BUDGET, SO WE'RE

4392

02:30:21,879 --> 02:30:23,481

LOOKING AT A VARIETY OF THINGS

4393

02:30:23,547 --> 02:30:27,017

THAT WILL HELP TO BUDGETTARILY

4394

02:30:27,084 --> 02:30:29,153

AS WELL AS EXPLORATION-WISE TO

4395

02:30:29,220 --> 02:30:30,621

ADVANCE BOTH SCIENCE AND

4396

02:30:30,688 --> 02:30:34,091

EXPLORATION MOVING OUTWARD.

4397

02:30:34,158 --> 02:30:39,096

>> THATHATHANK YOU, Dr. BARNES.

4398

02:30:39,163 --> 02:30:40,164

I JUST WANTED TO HIGHLIGHT WHEN

4399

02:30:40,231 --> 02:30:42,833

WE CANNIBALIZE SCIENCE FOR HUMAN

4400

02:30:42,900 --> 02:30:44,535

EXPLORATION, IT BECOMES VERY

4401
02:30:44,602 --> 02:30:46,971
PARTISAN IN THE HOUSE AND THE

4402
02:30:47,037 --> 02:30:47,571
SENATE AND THEN NONE OF US GET

4403
02:30:47,638 --> 02:30:49,173
TO ACHIEVE THE OBJECTIVES WE'RE

4404
02:30:49,240 --> 02:30:51,008
TRYING TO ULTIMATE AACHIEVE ON

4405
02:30:51,075 --> 02:30:51,876
ANY SIDE OF THE AISLE.

4406
02:30:51,942 --> 02:30:53,444
I WANT TO MAKE SURE THAT WE'RE

4407
02:30:53,511 --> 02:30:54,545
VERY SENSITIVE TO THAT.

4408
02:30:54,612 --> 02:30:56,881
LAST THING IS, WANDA, THERE'S

4409
02:30:56,947 --> 02:30:58,582
ONE SENTENCE IN HERE, I'M GOING

4410
02:30:58,649 --> 02:31:02,186
TO READ THIS FOR THE NASA WORK

4411
02:31:02,253 --> 02:31:03,621
FORCE AND OUR INDUSTRY PARTNERS

4412
02:31:03,687 --> 02:31:05,356
THAT ARE HERE AND THE SENTENCE

4413
02:31:05,423 --> 02:31:06,857

THAT IS TREMENDOUSLY VALUABLE,

4414

02:31:06,924 --> 02:31:08,893

ANYTHING THAT IS NOT MANDATORY

4415

02:31:08,959 --> 02:31:12,129

IS A DISTRACTION.

4416

02:31:12,196 --> 02:31:13,931

THOSE WORDS COULD NOT BE MORE

4417

02:31:13,998 --> 02:31:15,699

TRUE AND OF COURSE ON THE NEXT

4418

02:31:15,766 --> 02:31:18,335

PAGE, YOU GAVE SEVEN BULLET

4419

02:31:18,402 --> 02:31:20,671

POINTS OF ITEMS WE NEED TO

4420

02:31:20,738 --> 02:31:20,905

ACHIEVE.

4421

02:31:20,971 --> 02:31:24,408

NOT GOING TO GO INTO THOSE BUT

4422

02:31:24,475 --> 02:31:26,777

I'M PROBABLY GOING TO POST THAT

4423

02:31:26,844 --> 02:31:27,411

ON THE NASA WEBSITE AND EMAIL IT

4424

02:31:27,478 --> 02:31:29,346

OUT TO EVERYBODY AT THE NASA

4425

02:31:29,413 --> 02:31:32,183

WORK FORCE BECAUSE WE NOW HAVE A

4426
02:31:32,249 --> 02:31:34,084
DIRECTIVE TO TRY TO MEET 2024

4427
02:31:34,151 --> 02:31:35,219
AND THAT'S THE ONLY WAY WE'RE

4428
02:31:35,286 --> 02:31:36,487
GOING TO BE ABLE TO ACHIEVE IT.

4429
02:31:36,554 --> 02:31:38,656
THANK YOU FOR THAT TESTIMONIAL,

4430
02:31:38,722 --> 02:31:39,557
Mr. VICE-PRESIDENT, I YIELD

4431
02:31:39,623 --> 02:31:40,357
BACK.

4432
02:31:40,424 --> 02:31:41,158
>> JUST OUTSTANDING.

4433
02:31:41,225 --> 02:31:42,660
WOULD YOU ALL JOIN ME IN

4434
02:31:42,726 --> 02:31:44,695
THANKING THIS OUTSTANDING PANEL.

4435
02:31:44,762 --> 02:31:45,029
GREAT JOB.

4436
02:31:45,095 --> 02:31:46,230
[Applause]

4437
02:31:46,297 --> 02:31:50,134
THANK YOU.

4438
02:31:50,201 --> 02:31:52,269

WITH THAT, LET ME DIRECT MEMBERS

4439

02:31:52,336 --> 02:31:55,206

OF THE NATIONAL SPACE COUNCIL TO

4440

02:31:55,272 --> 02:31:57,274

RECOMMENDATIONS ON HUMAN SPACE

4441

02:31:57,341 --> 02:31:59,810

EXPLORATION THAT ARE IN YOUR

4442

02:31:59,877 --> 02:32:00,044

FOLDER.

4443

02:32:00,110 --> 02:32:03,347

THEY REFLECT THE PRESIDENT'S

4444

02:32:03,414 --> 02:32:05,549

STATED OBJECTIVE OF RETURNING

4445

02:32:05,616 --> 02:32:08,118

AMERICAN ASTRONAUTS TO THE MOON

4446

02:32:08,185 --> 02:32:11,822

WITHIN THE NEXT FIVE YEARS.

4447

02:32:11,889 --> 02:32:14,024

AND ALSO A VARIETY OF REFORMS,

4448

02:32:14,091 --> 02:32:17,061

ALL OF WHICH HAVE BEEN DISCUSSED

4449

02:32:17,127 --> 02:32:20,998

TODAY IN PRESENTATIONS AND IN

4450

02:32:21,065 --> 02:32:22,333

RECOMMENDATIONS FROM OUR USER

4451
02:32:22,399 --> 02:32:23,234
ADVISORY GROUP.

4452
02:32:23,300 --> 02:32:26,337
THERE'S ALSO RECOMMENDATIONS

4453
02:32:26,403 --> 02:32:29,173
ABOUT INDUSTRY, SPACE-RELATED

4454
02:32:29,240 --> 02:32:31,008
EXPORT CONTROLS, REGULATORY AND

4455
02:32:31,075 --> 02:32:33,944
POLICY ACTIONS ALL OF WHICH HAVE

4456
02:32:34,011 --> 02:32:35,646
BEEN DEVELOPED.

4457
02:32:35,713 --> 02:32:36,847
IF THERE'S ANY DISCUSSION THE

4458
02:32:36,914 --> 02:32:38,148
CHAIR WOULD RECOGNIZE ANY

4459
02:32:38,215 --> 02:32:39,950
DISCUSSION FROM ANY OF THE

4460
02:32:40,017 --> 02:32:40,985
MEMBERS, I KNOW YOU HAVE HAD THE

4461
02:32:41,051 --> 02:32:46,423
OPPORTUNITY TO REVIEW THESE

4462
02:32:46,490 --> 02:32:49,860
RECOMMENDATIONS, AND HEARING IN

4463
02:32:49,927 --> 02:32:51,161

OBJECTION, WE WILL FORWARD THESE

4464

02:32:51,228 --> 02:32:52,696

RECOMMENDATIONS TO THE PRESIDENT

4465

02:32:52,763 --> 02:32:54,298

FROM THE NATIONAL SPACE COUNCIL

4466

02:32:54,365 --> 02:32:56,934

ON A UNANIMOUS BASIS.

4467

02:32:57,001 --> 02:32:58,435

THANK YOU.

4468

02:32:58,502 --> 02:32:58,969

VERY GOOD.

4469

02:32:59,036 --> 02:33:06,277

[Applause]

4470

02:33:06,343 --> 02:33:10,214

LET ME SIMPLY CLOSE BY THANKING

4471

02:33:10,281 --> 02:33:12,416

ALL THOSE PRESENT, THANK YOUING

4472

02:33:12,483 --> 02:33:14,485

THE EXTRAORDINARY CONTRIBUTIONS

4473

02:33:14,552 --> 02:33:17,354

OF OUR PANELISTS, MEMBERS OF THE

4474

02:33:17,421 --> 02:33:20,024

USER ADVISORY GROUP, AND FRANKLY

4475

02:33:20,090 --> 02:33:22,927

ALL OF THE EXTRAORDINARY MEN AND

4476
02:33:22,993 --> 02:33:25,462
WOMEN HERE AT MARSHALL SPACE

4477
02:33:25,529 --> 02:33:26,463
FLIGHT CENTER.

4478
02:33:26,530 --> 02:33:27,965
IT'S AN HONOR TO HAVE BEEN WITH

4479
02:33:28,032 --> 02:33:29,199
YOU ALL.

4480
02:33:29,266 --> 02:33:30,801
GOVERNOR IVY, THANK YOU SO MUCH

4481
02:33:30,868 --> 02:33:31,802
FOR YOUR PRESENCE THROUGHOUT

4482
02:33:31,869 --> 02:33:32,002
THIS.

4483
02:33:32,069 --> 02:33:35,539
I THINK IT REFLECTS NOT ONLY ONLY

4484
02:33:35,606 --> 02:33:37,608
YOUR PERSONAL COMMITMENT TO THE

4485
02:33:37,675 --> 02:33:39,009
SPACE PROGRAM BUT THE

4486
02:33:39,076 --> 02:33:40,945
RELATIONSHIP OF HUNTSVILLE AND

4487
02:33:41,011 --> 02:33:44,848
ALABAMA TO THE AMERICAN SPACE

4488
02:33:44,915 --> 02:33:48,686

ENTERPRISE.

4489

02:33:48,752 --> 02:33:50,220

AS I CLOSE, LET ME JUST REMIND

4490

02:33:50,287 --> 02:33:53,724

YOU FOR WHAT WE'VE ALREADY

4491

02:33:53,791 --> 02:33:54,024

HEARD.

4492

02:33:54,091 --> 02:33:55,826

WE WILL CELEBRATE IN MANY WAYS

4493

02:33:55,893 --> 02:33:59,964

OVER THE COURSE OF THIS YEAR

4494

02:34:00,030 --> 02:34:04,301

THAT ONE GIANT LEAP FOR MANKIND

4495

02:34:04,368 --> 02:34:09,873

THAT HAPPENED 50 YEARS AGO THAT

4496

02:34:09,940 --> 02:34:11,675

AS I SAID EARLIER, IT IS TIME

4497

02:34:11,742 --> 02:34:13,978

FOR THE NEXT GIANT LEAP.

4498

02:34:14,044 --> 02:34:15,713

THAT NEXT GIANT LEAP IS TO

4499

02:34:15,779 --> 02:34:16,580

RETURN AMERICAN ASTRONAUTS TO

4500

02:34:16,647 --> 02:34:18,449

THE MOON WITHIN THE NEXT FIVE

4501
02:34:18,515 --> 02:34:19,550
YEARS.

4502
02:34:19,617 --> 02:34:22,486
BY ANY MEANS NECESSARY.

4503
02:34:22,553 --> 02:34:23,988
TO ESTABLISH A PERMANENT

4504
02:34:24,054 --> 02:34:26,624
PRESENCE ON THE MOON AND PREPARE

4505
02:34:26,690 --> 02:34:28,025
TO PUT AMERICAN ASTRONAUTS ON

4506
02:34:28,092 --> 02:34:29,126
MARS.

4507
02:34:29,193 --> 02:34:32,563
THIS IS THE STATED OBJECTIVE OF

4508
02:34:32,630 --> 02:34:34,565
THE UNITED STATES OF AMERICA AND

4509
02:34:34,632 --> 02:34:35,466
THE DIRECTION OF THE PRESIDENT

4510
02:34:35,532 --> 02:34:36,133
OF THE UNITED STATES.

4511
02:34:36,200 --> 02:34:37,701
I CAN ASSURE YOU WE WILL BRING

4512
02:34:37,768 --> 02:34:40,037
THE FULL RESOURCES OF THIS

4513
02:34:40,104 --> 02:34:42,039

ADMINISTRATION AND THE FEDERAL

4514

02:34:42,106 --> 02:34:43,574

GOVERNMENT BEHIND THIS EFFORT.

4515

02:34:43,641 --> 02:34:47,244

IT IS A NATIONAL PRIORITY AND SO

4516

02:34:47,311 --> 02:34:49,413

IT WILL REMAIN.

4517

02:34:49,480 --> 02:34:51,215

BUT TO ACCOMPLISH THIS AS WE'VE

4518

02:34:51,281 --> 02:34:53,317

SAID BEFORE, AND I SAY WITH THE

4519

02:34:53,384 --> 02:34:55,653

DEEPEST RESPECT AND ADMIRATION

4520

02:34:55,719 --> 02:35:02,393

FOR THE MEN AND WOMEN OF NASA,

4521

02:35:02,459 --> 02:35:03,927

FOR THE MARSHALL SPACE FLIGHT

4522

02:35:03,994 --> 02:35:05,329

CENTER, FOR THE INCREDIBLE

4523

02:35:05,396 --> 02:35:07,531

LEGACY OF LEADERSHIP AND

4524

02:35:07,598 --> 02:35:08,966

INNOVATION HERE, THAT IT IS

4525

02:35:09,033 --> 02:35:10,668

TIME TO STEP UP.

4526
02:35:10,734 --> 02:35:13,003
IT'S TIME TO REDOUBLE OUR

4527
02:35:13,070 --> 02:35:14,738
EFFORTS, ACCELERATE AS YOU HAVE

4528
02:35:14,805 --> 02:35:17,141
HEARD TODAY, THE SLS PROGRAM TO

4529
02:35:17,207 --> 02:35:18,976
MEET THIS OBJECTIVE.

4530
02:35:19,043 --> 02:35:20,344
IT CAN HAPPEN BUT IT WILL NOT

4531
02:35:20,411 --> 02:35:23,080
HAPPEN UNLESS WE INCREASE THE

4532
02:35:23,147 --> 02:35:26,016
PACE OF INNOVATION AND CHANGE.

4533
02:35:26,083 --> 02:35:35,693
WE ARE A NATION OF RESTLY RESTLS

4534
02:35:35,759 --> 02:35:35,959
PIONEERS.

4535
02:35:36,026 --> 02:35:37,194
WE ARE LED BY A PRESIDENT WHO

4536
02:35:37,261 --> 02:35:40,230
BELIEVES IN GOING HIGHER,

4537
02:35:40,297 --> 02:35:42,633
FARTHER, FASTER THAN EVER BEFORE

4538
02:35:42,700 --> 02:35:44,535

AND IT IS IMPORTANT TO MAKE SURE

4539

02:35:44,601 --> 02:35:48,706

WE RENEW AMERICA'S COMMITMENT IN

4540

02:35:48,772 --> 02:35:51,208

HUMAN SPACE EXPLORATION.

4541

02:35:51,275 --> 02:35:53,744

I LEAVE YOU WITH THE

4542

02:35:53,811 --> 02:35:57,047

ADMINISTRATOR'S ADMONITION FOCUS

4543

02:35:57,114 --> 02:35:58,549

ON THE MISSION OVER THE MEANS.

4544

02:35:58,615 --> 02:35:59,683

DON'T LET ANYTHING STAND IN THE

4545

02:35:59,750 --> 02:36:01,085

WAY AND WITH SINCERE THANKS TO

4546

02:36:01,151 --> 02:36:02,419

ALL WHO PARTICIPATED HERE, I

4547

02:36:02,486 --> 02:36:04,922

WILL END THIS MEETING THE WAY

4548

02:36:04,988 --> 02:36:05,923

THAT PRESIDENT TRUMP OFTEN ENDS

4549

02:36:05,989 --> 02:36:08,959

MEETING IN THE OVAL OFFICE.

4550

02:36:09,026 --> 02:36:09,760

ON IMPORTANT MATTERS.

4551

02:36:09,827 --> 02:36:11,195

WHEN EVERYTHING IS TALKED ABOUT,

4552

02:36:11,261 --> 02:36:14,198

HE LOOKS AROUND THE ROOM AND

4553

02:36:14,264 --> 02:36:15,499

SAYS LET'S GO.

4554

02:36:15,566 --> 02:36:17,935

SO LET'S GO, NASA.

4555

02:36:18,001 --> 02:36:19,036

LET'S GO, AMERICAN SPACE.

4556

02:36:19,103 --> 02:36:20,437

LET'S GO BACK TO THE MOON.