



1  
00:00:10,230 --> 00:00:06,950  
good afternoon everyone this is the

2  
00:00:11,509 --> 00:00:10,240  
pre-launch news conference for npp to be

3  
00:00:13,669 --> 00:00:11,519  
launched aboard

4  
00:00:16,630 --> 00:00:13,679  
a delta ii rocket from nasa space launch

5  
00:00:18,790 --> 00:00:16,640  
complex 2 on friday morning our first

6  
00:00:21,269 --> 00:00:18,800  
briefing will discuss the countdown and

7  
00:00:22,950 --> 00:00:21,279  
the flight of the delta ii

8  
00:00:25,429 --> 00:00:22,960  
and then we will have a second briefing

9  
00:00:28,230 --> 00:00:25,439  
that will discuss the objectives of the

10  
00:00:30,790 --> 00:00:28,240  
npp spacecraft that will immediately be

11  
00:00:35,990 --> 00:00:30,800  
followed by briefing on our cubesat

12  
00:00:39,270 --> 00:00:38,069  
participating in our briefing today will

13  
00:00:42,229 --> 00:00:39,280

be first

14

00:00:44,549 --> 00:00:42,239

andrew carson the npp pro program

15

00:00:46,950 --> 00:00:44,559

executive from nasa headquarters in

16

00:00:49,590 --> 00:00:46,960

washington

17

00:00:53,510 --> 00:00:49,600

tim dunn the nasa launch director from

18

00:00:58,869 --> 00:00:56,069

vernon thorpe program manager for nasa

19

00:01:01,270 --> 00:00:58,879

missions for united launch alliance in

20

00:01:04,390 --> 00:01:01,280

denver

21

00:01:06,070 --> 00:01:04,400

ken schwer the npp project manager from

22

00:01:08,950 --> 00:01:06,080

the goddard space flight center in

23

00:01:10,870 --> 00:01:08,960

greenbelt maryland

24

00:01:13,270 --> 00:01:10,880

and lieutenant lisa cochran the launch

25

00:01:15,910 --> 00:01:13,280

weather officer from the 30th operation

26

00:01:18,310 --> 00:01:15,920

support squadron at vandenberg

27

00:01:21,109 --> 00:01:18,320

and we'll begin first with andrew carson

28

00:01:22,390 --> 00:01:21,119

our npp program executive andrew thank

29

00:01:24,310 --> 00:01:22,400

you george

30

00:01:27,749 --> 00:01:24,320

we're very excited about the upcoming

31

00:01:29,990 --> 00:01:27,759

launch of mpp mpp is a bridge the next

32

00:01:31,510 --> 00:01:30,000

generation of earth observing satellites

33

00:01:33,670 --> 00:01:31,520

and will provide measurements that are

34

00:01:35,510 --> 00:01:33,680

critical to nasa's earth science

35

00:01:37,350 --> 00:01:35,520

research

36

00:01:39,030 --> 00:01:37,360

mpp will help us understand what

37

00:01:40,950 --> 00:01:39,040

tomorrow will bring

38

00:01:43,109 --> 00:01:40,960

whether by tomorrow we mean tomorrow's

39

00:01:45,830 --> 00:01:43,119

forecast or whether we mean years or

40

00:01:48,870 --> 00:01:45,840

decades down the road

41

00:01:51,109 --> 00:01:48,880

could i have the first video please

42

00:01:53,429 --> 00:01:51,119

nasa is currently operating 14 earth

43

00:01:55,429 --> 00:01:53,439

observing missions including a series of

44

00:01:57,749 --> 00:01:55,439

satellites known as the earth observing

45

00:02:00,469 --> 00:01:57,759

system or eos

46

00:02:02,469 --> 00:02:00,479

these satellites terra aqua and ara

47

00:02:04,950 --> 00:02:02,479

provide key measurements about our land

48

00:02:07,190 --> 00:02:04,960

oceans and atmosphere

49

00:02:08,790 --> 00:02:07,200

npp will continue these measurements

50

00:02:11,110 --> 00:02:08,800

which are critical for understanding the

51  
00:02:14,790 --> 00:02:11,120  
health of our planet now as well as how

52  
00:02:18,869 --> 00:02:16,470  
nasa is taking what we learned with the

53  
00:02:20,390 --> 00:02:18,879  
eos program and mpp

54  
00:02:22,630 --> 00:02:20,400  
and helping noaa create the next

55  
00:02:24,869 --> 00:02:22,640  
generation of satellites to extend these

56  
00:02:26,309 --> 00:02:24,879  
measurements into the future

57  
00:02:29,750 --> 00:02:26,319  
and that program is called the joint

58  
00:02:32,949 --> 00:02:29,760  
polar satellite system or jpss

59  
00:02:35,350 --> 00:02:32,959  
can i have the next video please

60  
00:02:37,509 --> 00:02:35,360  
npp will lay the groundwork for the jpss

61  
00:02:39,589 --> 00:02:37,519  
system by proving out the capabilities

62  
00:02:41,830 --> 00:02:39,599  
and technologies of both the instruments

63  
00:02:44,150 --> 00:02:41,840

and the ground system

64

00:02:47,110 --> 00:02:44,160

the mpp data will also be incorporated

65

00:02:49,190 --> 00:02:47,120

into operational weather forecast models

66

00:02:50,550 --> 00:02:49,200

providing higher resolution data and

67

00:02:52,470 --> 00:02:50,560

improving our weather forecast

68

00:02:55,190 --> 00:02:52,480

capability

69

00:02:57,509 --> 00:02:55,200

so npp is a critical first step in

70

00:02:59,430 --> 00:02:57,519

creating a climate capable operational

71

00:03:01,270 --> 00:02:59,440

system

72

00:03:02,869 --> 00:03:01,280

this mission was developed

73

00:03:05,589 --> 00:03:02,879

in collaboration with our partners at

74

00:03:07,910 --> 00:03:05,599

noaa and the department of defense

75

00:03:11,750 --> 00:03:07,920

as well as our industry partners in ball

76

00:03:13,750 --> 00:03:11,760

north of grumman raytheon and itt

77

00:03:15,190 --> 00:03:13,760

so as we finish up the the last launch

78

00:03:17,430 --> 00:03:15,200

preparations we look forward to the

79

00:03:19,430 --> 00:03:17,440

launch of mpp we know it'll become a

80

00:03:21,750 --> 00:03:19,440

significant part of our nation's climate

81

00:03:23,750 --> 00:03:21,760

and weather monitoring system

82

00:03:25,830 --> 00:03:23,760

george thank you andrew

83

00:03:28,789 --> 00:03:25,840

and now to tim dunn the nasa launch

84

00:03:30,949 --> 00:03:28,799

director for flight on friday morning

85

00:03:32,390 --> 00:03:30,959

tim is from the kennedy space center

86

00:03:33,830 --> 00:03:32,400

tim

87

00:03:35,830 --> 00:03:33,840

thank you george

88

00:03:37,750 --> 00:03:35,840

i'm proud to be here today representing

89

00:03:39,589 --> 00:03:37,760

the men and women of nasa's launch

90

00:03:43,190 --> 00:03:39,599

services program

91

00:03:46,309 --> 00:03:43,200

the impose preparatory project or npp is

92

00:03:48,149 --> 00:03:46,319

my second mission as nasa launch manager

93

00:03:50,710 --> 00:03:48,159

and i'm thrilled to continue my launch

94

00:03:52,869 --> 00:03:50,720

director duties with a delta ii launch

95

00:03:54,789 --> 00:03:52,879

spacecraft that will serve as the first

96

00:03:56,949 --> 00:03:54,799

step in building the next generation of

97

00:03:58,710 --> 00:03:56,959

earth observing satellites

98

00:04:00,390 --> 00:03:58,720

in addition to npp

99

00:04:02,789 --> 00:04:00,400

nasa is pleased to launch

100

00:04:04,869 --> 00:04:02,799

six small satellites called cubesats on

101  
00:04:07,630 --> 00:04:04,879  
this mission

102  
00:04:11,589 --> 00:04:07,640  
npp will launch on a delta ii

103  
00:04:14,470 --> 00:04:11,599  
7920 vehicle from space launch complex 2

104  
00:04:15,509 --> 00:04:14,480  
affectionately called slick 2.

105  
00:04:17,830 --> 00:04:15,519  
npp

106  
00:04:19,909 --> 00:04:17,840  
will be the 357th

107  
00:04:21,509 --> 00:04:19,919  
delta rocket to launch since may of

108  
00:04:24,070 --> 00:04:21,519  
1960.

109  
00:04:26,950 --> 00:04:24,080  
slick 2 is proud to have hosted 80 of

110  
00:04:29,270 --> 00:04:26,960  
those delta launches to date

111  
00:04:31,670 --> 00:04:29,280  
over the past week the delta ii team has

112  
00:04:34,790 --> 00:04:31,680  
been busy with launch preparations

113  
00:04:36,950 --> 00:04:34,800

last friday the combined nasa and ula

114

00:04:39,030 --> 00:04:36,960

launch team held the flight readiness

115

00:04:41,189 --> 00:04:39,040

review where we assess the preparations

116

00:04:43,270 --> 00:04:41,199

of the delta ii launch vehicle

117

00:04:46,310 --> 00:04:43,280

range and facility assets and the

118

00:04:48,710 --> 00:04:46,320

readiness of the npp spacecraft

119

00:04:50,950 --> 00:04:48,720

on monday we performed performed a

120

00:04:53,030 --> 00:04:50,960

successful mission dress rehearsal

121

00:04:55,110 --> 00:04:53,040

and loaded the hypergolic propellants

122

00:04:56,710 --> 00:04:55,120

onto the second stage on monday and

123

00:04:58,629 --> 00:04:56,720

tuesday

124

00:05:00,310 --> 00:04:58,639

now i'd like to show a video of the ula

125

00:05:04,230 --> 00:05:00,320

crew building up the delta ii launch

126

00:05:06,070 --> 00:05:04,240

vehicle at slick 2. please roll the tape

127

00:05:08,390 --> 00:05:06,080

here you see the arrival of the first

128

00:05:11,350 --> 00:05:08,400

stage being offloaded here at vanderberg

129

00:05:13,909 --> 00:05:11,360

air force base back in june of this year

130

00:05:15,830 --> 00:05:13,919

the first stage is manufactured by ula

131

00:05:17,189 --> 00:05:15,840

in decatur alabama and then shipped

132

00:05:18,950 --> 00:05:17,199

cross country

133

00:05:20,710 --> 00:05:18,960

here's the second stage arriving about a

134

00:05:23,110 --> 00:05:20,720

month later in july

135

00:05:25,029 --> 00:05:23,120

again being offloaded and set on its

136

00:05:28,150 --> 00:05:25,039

over the road trailer will be

137

00:05:30,790 --> 00:05:28,160

transported to slick 2.

138

00:05:32,550 --> 00:05:30,800

this is a video showing fairing erection

139

00:05:34,870 --> 00:05:32,560

into the mobile service tower at the

140

00:05:37,510 --> 00:05:34,880

launch pad at slick 2.

141

00:05:39,189 --> 00:05:37,520

this occurred on july 19th

142

00:05:41,029 --> 00:05:39,199

you can see the fairing

143

00:05:44,150 --> 00:05:41,039

going up the side of the tower and be

144

00:05:46,230 --> 00:05:44,160

positioned inside the clean room

145

00:05:49,749 --> 00:05:46,240

awaiting the launch vehicle erection and

146

00:05:55,110 --> 00:05:51,990

on the next day we brought the first

147

00:05:57,510 --> 00:05:55,120

stage out to slick 2 and did erection

148

00:06:00,469 --> 00:05:57,520

onto the launch mount you see connection

149

00:06:02,950 --> 00:06:00,479

here to the overhead bridge crane

150

00:06:05,670 --> 00:06:02,960

erecting the first stage

151  
00:06:07,350 --> 00:06:05,680  
there's the rs 27 first stage engine a

152  
00:06:10,150 --> 00:06:07,360  
nice shot of that

153  
00:06:12,309 --> 00:06:10,160  
you'll see the first stage being

154  
00:06:15,430 --> 00:06:12,319  
brought into the mobile service tower

155  
00:06:18,469 --> 00:06:15,440  
and then used as a mobile server moving

156  
00:06:20,150 --> 00:06:18,479  
crane the mst will then be rolled back

157  
00:06:21,909 --> 00:06:20,160  
over the launch mount and you can see

158  
00:06:23,909 --> 00:06:21,919  
the first stage being lowered onto the

159  
00:06:26,070 --> 00:06:23,919  
launch mount here there are six launch

160  
00:06:27,990 --> 00:06:26,080  
legs that we precisely set the first

161  
00:06:29,670 --> 00:06:28,000  
stage down on

162  
00:06:32,950 --> 00:06:29,680  
beginning about a week later we brought

163  
00:06:35,510 --> 00:06:32,960

out the solid rocket motors npp is the

164

00:06:36,870 --> 00:06:35,520

7900 configuration of delta ii so

165

00:06:40,469 --> 00:06:36,880

there'll be nine

166

00:06:42,309 --> 00:06:40,479

of the gem 40s graphite epoxy motor 40

167

00:06:44,309 --> 00:06:42,319

inch diameter

168

00:06:46,150 --> 00:06:44,319

and you can see using the same overhead

169

00:06:48,870 --> 00:06:46,160

crane from the mst

170

00:06:51,909 --> 00:06:48,880

bringing that into the mst

171

00:06:54,390 --> 00:06:51,919

and attaching to the first stage

172

00:06:57,830 --> 00:06:54,400

here's second stage hoist inmate and

173

00:06:58,710 --> 00:06:57,840

that occurred on august 2nd of this year

174

00:07:00,230 --> 00:06:58,720

the

175

00:07:03,430 --> 00:07:00,240

second stage

176  
00:07:05,029 --> 00:07:03,440  
again manufactured in decatur alabama

177  
00:07:06,230 --> 00:07:05,039  
you see the

178  
00:07:08,150 --> 00:07:06,240  
aerojet

179  
00:07:10,070 --> 00:07:08,160  
aj-10 engine

180  
00:07:11,909 --> 00:07:10,080  
on the bottom half of the second stage

181  
00:07:17,029 --> 00:07:11,919  
and here is the stage being lowered and

182  
00:07:22,550 --> 00:07:19,749  
and here is the spacecraft coming out on

183  
00:07:24,150 --> 00:07:22,560  
the morning of october 13th a little

184  
00:07:26,150 --> 00:07:24,160  
under two weeks ago

185  
00:07:28,870 --> 00:07:26,160  
the spacecraft the mpp was brought out

186  
00:07:31,189 --> 00:07:28,880  
in its transportation can we waited an

187  
00:07:33,350 --> 00:07:31,199  
extra day due to high winds on the 12th

188  
00:07:35,350 --> 00:07:33,360

of this month but on the 13th it was a

189

00:07:37,670 --> 00:07:35,360

beautiful day and light winds

190

00:07:39,270 --> 00:07:37,680

brought the transportation can up into

191

00:07:41,510 --> 00:07:39,280

the clean room

192

00:07:45,110 --> 00:07:41,520

and gently lowered it down and made it

193

00:07:46,629 --> 00:07:45,120

here to the top of the second stage

194

00:07:48,790 --> 00:07:46,639

and then this is fairing insulation

195

00:07:50,869 --> 00:07:48,800

beautiful shot of the satellite there

196

00:07:52,790 --> 00:07:50,879

and the fairing halves are brought in

197

00:07:55,110 --> 00:07:52,800

and around the spacecraft this occurred

198

00:07:57,830 --> 00:07:55,120

last thursday

199

00:07:59,909 --> 00:07:57,840

a nice shot of one of the sectors in

200

00:08:03,990 --> 00:07:59,919

place for the fairing and the second

201  
00:08:06,309 --> 00:08:04,000  
bisector coming in for mate

202  
00:08:09,510 --> 00:08:06,319  
and we had an incredibly smooth payload

203  
00:08:11,909 --> 00:08:09,520  
fairing mate last week

204  
00:08:14,150 --> 00:08:11,919  
this morning we held a successful launch

205  
00:08:17,510 --> 00:08:14,160  
readiness review and received approval

206  
00:08:20,150 --> 00:08:17,520  
from senior nasa and ula management as

207  
00:08:21,990 --> 00:08:20,160  
well as spacecraft and range agencies to

208  
00:08:25,029 --> 00:08:22,000  
proceed with initiating our launch

209  
00:08:27,189 --> 00:08:25,039  
countdown beginning tomorrow evening

210  
00:08:29,670 --> 00:08:27,199  
at slick 2 today we performed range

211  
00:08:31,990 --> 00:08:29,680  
safety and beacon checks along with

212  
00:08:34,790 --> 00:08:32,000  
first and second stage engine slewing

213  
00:08:36,870 --> 00:08:34,800

checkout and the final azimuth update

214

00:08:39,110 --> 00:08:36,880

and loading that update into the flight

215

00:08:41,350 --> 00:08:39,120

computer

216

00:08:43,110 --> 00:08:41,360

on thursday afternoon we will begin

217

00:08:45,829 --> 00:08:43,120

final launch pad preparations at

218

00:08:48,070 --> 00:08:45,839

approximately 3 p.m pacific time

219

00:08:49,350 --> 00:08:48,080

when we will load the rp-1 fuel onto the

220

00:08:51,269 --> 00:08:49,360

first stage

221

00:08:53,990 --> 00:08:51,279

and we will then move the mobile service

222

00:08:56,310 --> 00:08:54,000

tower into the launch position

223

00:08:59,350 --> 00:08:56,320

the launch team will arrive on console

224

00:09:01,110 --> 00:08:59,360

approximately 10 pm tomorrow evening and

225

00:09:03,670 --> 00:09:01,120

we will then perform final launch

226  
00:09:06,630 --> 00:09:03,680  
preparations of vehicle power on and

227  
00:09:09,509 --> 00:09:06,640  
pressurization right before midnight

228  
00:09:11,750 --> 00:09:09,519  
followed by first stage liquid oxygen

229  
00:09:13,509 --> 00:09:11,760  
loading at 1 am

230  
00:09:16,230 --> 00:09:13,519  
final engine slews will be performed

231  
00:09:19,750 --> 00:09:16,240  
approximately 2 am friday morning and

232  
00:09:21,590 --> 00:09:19,760  
then we will be ready for our t 0 at 0 2

233  
00:09:23,509 --> 00:09:21,600  
48 0 1

234  
00:09:26,790 --> 00:09:23,519  
a.m pacific time

235  
00:09:28,870 --> 00:09:26,800  
we have a 9 minute and 10 second window

236  
00:09:33,829 --> 00:09:28,880  
and are looking forward to a successful

237  
00:09:37,990 --> 00:09:35,670  
we're going out to vernon thorpe the

238  
00:09:40,389 --> 00:09:38,000

program manager for nasa missions from

239

00:09:41,990 --> 00:09:40,399

united launch alliance vern

240

00:09:44,070 --> 00:09:42,000

hey thank you george

241

00:09:47,430 --> 00:09:44,080

on behalf of michael gass our president

242

00:09:49,590 --> 00:09:47,440

and ceo and the 3 700 men and women of

243

00:09:51,750 --> 00:09:49,600

ula i'd like to say that we're proud to

244

00:09:52,790 --> 00:09:51,760

support nasa and the launch of the npp

245

00:09:55,990 --> 00:09:52,800

mission

246

00:09:57,750 --> 00:09:56,000

this will be the 50th delta ii that

247

00:10:00,070 --> 00:09:57,760

we've flown for nasa

248

00:10:03,269 --> 00:10:00,080

this will also be ula's 10th launch this

249

00:10:05,110 --> 00:10:03,279

year and it will be ula's 55th launch

250

00:10:07,590 --> 00:10:05,120

overall

251  
00:10:09,509 --> 00:10:07,600  
in addition this is the fourth of five

252  
00:10:11,110 --> 00:10:09,519  
missions that we are launching for nasa

253  
00:10:12,310 --> 00:10:11,120  
this year in just under a six-month

254  
00:10:13,829 --> 00:10:12,320  
period

255  
00:10:15,750 --> 00:10:13,839  
we've worked closely with the npp

256  
00:10:17,750 --> 00:10:15,760  
spacecraft team and with our partners in

257  
00:10:20,150 --> 00:10:17,760  
ksc's launch services program for

258  
00:10:22,550 --> 00:10:20,160  
several years preparing for this launch

259  
00:10:24,470 --> 00:10:22,560  
the integration work is complete

260  
00:10:26,310 --> 00:10:24,480  
the launch processing is in its final

261  
00:10:29,269 --> 00:10:26,320  
stages and we are ready to launch the

262  
00:10:30,790 --> 00:10:29,279  
npp spacecraft into a polar earth orbit

263  
00:10:32,630 --> 00:10:30,800

this launch will be a critical step in

264

00:10:35,030 --> 00:10:32,640

developing our country's next generation

265

00:10:37,110 --> 00:10:35,040

earth observing satellite system

266

00:10:39,590 --> 00:10:37,120

it's also worth noting as tim pointed

267

00:10:41,990 --> 00:10:39,600

out that we have a few cubesats on board

268

00:10:44,310 --> 00:10:42,000

as well we actually have three what we

269

00:10:47,190 --> 00:10:44,320

call p-pod dispensers on the front end

270

00:10:49,030 --> 00:10:47,200

of the upper stage and distributed among

271

00:10:52,069 --> 00:10:49,040

those three peapod dispensers we have

272

00:10:53,670 --> 00:10:52,079

six cubesats that we'll be deploying and

273

00:10:55,350 --> 00:10:53,680

we'll be doing that after completion of

274

00:10:56,550 --> 00:10:55,360

the primary mission about 40 minutes

275

00:10:58,069 --> 00:10:56,560

later

276

00:11:00,069 --> 00:10:58,079

these cubesats were provided by the

277

00:11:04,230 --> 00:11:00,079

university of michigan the university of

278

00:11:05,910 --> 00:11:04,240

montana auburn university and utah state

279

00:11:08,870 --> 00:11:05,920

the npp mission will be launched aboard

280

00:11:11,110 --> 00:11:08,880

a delta ii 7920-10

281

00:11:13,509 --> 00:11:11,120

vehicle featuring a ula first stage

282

00:11:15,590 --> 00:11:13,519

powered by a pratt whitney rocketdyne rs

283

00:11:18,230 --> 00:11:15,600

27a main engine

284

00:11:21,030 --> 00:11:18,240

and nine alliant tech system uh solid

285

00:11:22,949 --> 00:11:21,040

rocket motors an aerojet aj10 engine

286

00:11:24,870 --> 00:11:22,959

will power the second stage and the

287

00:11:26,870 --> 00:11:24,880

payload will be protected by a 10-foot

288

00:11:28,710 --> 00:11:26,880

diameter composite fairing during the

289

00:11:30,949 --> 00:11:28,720

first few minutes of flight

290

00:11:33,350 --> 00:11:30,959

tim showed us a video of the processing

291

00:11:35,430 --> 00:11:33,360

and activities that led us up to where

292

00:11:37,829 --> 00:11:35,440

we are today i'd like to show you a

293

00:11:39,110 --> 00:11:37,839

video of what we plan to see on launch

294

00:11:41,509 --> 00:11:39,120

morning if we could go ahead and roll

295

00:11:46,230 --> 00:11:43,509

okay when this vehicle lifts off it will

296

00:11:49,350 --> 00:11:46,240

weigh about 500 000 pounds we'll lift

297

00:11:51,190 --> 00:11:49,360

off with a thrust of 650 000 pounds and

298

00:11:53,509 --> 00:11:51,200

the first major event you see will be

299

00:11:55,509 --> 00:11:53,519

the burnout and jettison of the six

300

00:11:57,269 --> 00:11:55,519

ground lit srbs

301  
00:11:59,350 --> 00:11:57,279  
those will burn out about 65 seconds

302  
00:12:00,949 --> 00:11:59,360  
into flight we'll jettison them about 86

303  
00:12:02,629 --> 00:12:00,959  
seconds into flight

304  
00:12:05,269 --> 00:12:02,639  
before we jettison those we'll light the

305  
00:12:07,509 --> 00:12:05,279  
three air lit srbs those again will burn

306  
00:12:09,269 --> 00:12:07,519  
for 65 seconds we'll jettison them about

307  
00:12:15,910 --> 00:12:09,279  
a

308  
00:12:17,750 --> 00:12:15,920  
will continue to burn until we deplete

309  
00:12:19,750 --> 00:12:17,760  
all the propellants that will happen

310  
00:12:21,509 --> 00:12:19,760  
about four minutes and 20 seconds in the

311  
00:12:23,190 --> 00:12:21,519  
flight at that point we'll shut down the

312  
00:12:25,590 --> 00:12:23,200  
engines we'll separate from the upper

313  
00:12:28,150 --> 00:12:25,600

stage and we'll begin the first of

314

00:12:30,710 --> 00:12:28,160

several upper stage engine burns

315

00:12:33,110 --> 00:12:30,720

the first burn that we see on friday

316

00:12:35,990 --> 00:12:33,120

morning will last about almost six

317

00:12:37,509 --> 00:12:36,000

minutes five minutes 47 seconds

318

00:12:38,949 --> 00:12:37,519

and that will take us into an

319

00:12:40,389 --> 00:12:38,959

intermediate orbit

320

00:12:43,670 --> 00:12:40,399

we'll have a

321

00:12:46,069 --> 00:12:43,680

42 minute coast in between

322

00:12:48,389 --> 00:12:46,079

and then we'll do the uh

323

00:12:51,269 --> 00:12:48,399

the second engine burn that will put npp

324

00:12:52,710 --> 00:12:51,279

into its uh desired orbit for separation

325

00:12:54,230 --> 00:12:52,720

you saw the payload fairing jettison

326

00:12:56,550 --> 00:12:54,240

there a few seconds ago that jettison

327

00:12:59,910 --> 00:12:56,560

will happen shortly after the first

328

00:13:03,350 --> 00:12:59,920

upper stage engine burn begins

329

00:13:05,590 --> 00:13:03,360

so the the second burn will complete

330

00:13:07,430 --> 00:13:05,600

about 52 and a half minutes into flight

331

00:13:08,949 --> 00:13:07,440

we'll take a few minutes to reorient the

332

00:13:11,110 --> 00:13:08,959

upper stage

333

00:13:13,829 --> 00:13:11,120

and then we'll separate

334

00:13:15,990 --> 00:13:13,839

the npp spacecraft separation is

335

00:13:18,470 --> 00:13:16,000

nominally scheduled to happen about 58

336

00:13:20,949 --> 00:13:18,480

minutes and 45 seconds into flight so

337

00:13:22,150 --> 00:13:20,959

slightly less than an hour after liftoff

338

00:13:23,990 --> 00:13:22,160

now after

339

00:13:27,030 --> 00:13:24,000

we complete what we refer to as our

340

00:13:29,430 --> 00:13:27,040

primary mission uh we then do a second

341

00:13:30,949 --> 00:13:29,440

or i should say a third engine burn

342

00:13:33,509 --> 00:13:30,959

and after that third burn that's when

343

00:13:34,949 --> 00:13:33,519

we'll jettison the uh the p pods the the

344

00:13:36,069 --> 00:13:34,959

six cubesats that we're carrying in the

345

00:13:37,190 --> 00:13:36,079

peapod

346

00:13:39,269 --> 00:13:37,200

deployers

347

00:13:41,350 --> 00:13:39,279

and that will occur about an hour and 40

348

00:13:43,189 --> 00:13:41,360

minutes into flight and then finally

349

00:13:46,790 --> 00:13:43,199

we'll uh do a depletion burn of the

350

00:13:50,310 --> 00:13:48,790

we're proud to serve

351  
00:13:52,710 --> 00:13:50,320  
a critical role in delivering

352  
00:13:55,350 --> 00:13:52,720  
one-of-a-kind nasa payloads to orbit in

353  
00:13:57,430 --> 00:13:55,360  
support of the global science community

354  
00:14:00,069 --> 00:13:57,440  
and uh we're focused ula is focused on

355  
00:14:03,110 --> 00:14:00,079  
perfect product delivery that means

356  
00:14:04,790 --> 00:14:03,120  
uh for every mission we focus on one

357  
00:14:06,710 --> 00:14:04,800  
launch at a time

358  
00:14:08,550 --> 00:14:06,720  
and we work on continuous improvement in

359  
00:14:10,870 --> 00:14:08,560  
meeting the needs of all of all of our

360  
00:14:12,870 --> 00:14:10,880  
customers nasa and our other customers

361  
00:14:14,949 --> 00:14:12,880  
npp represents the culmination of years

362  
00:14:16,550 --> 00:14:14,959  
of hard work by the nasa and ula launch

363  
00:14:18,949 --> 00:14:16,560

teams and we anticipate that our

364

00:14:20,870 --> 00:14:18,959  
reliable delta ii will safely deliver

365

00:14:22,230 --> 00:14:20,880  
the spacecraft into its desired orbit

366

00:14:24,230 --> 00:14:22,240  
and we look forward to the important

367

00:14:25,189 --> 00:14:24,240  
earth observation data that npp will

368

00:14:27,030 --> 00:14:25,199  
provide

369

00:14:28,790 --> 00:14:27,040  
so once again i'd like to thank all of

370

00:14:31,670 --> 00:14:28,800  
our mission partners who worked with us

371

00:14:33,430 --> 00:14:31,680  
tirelessly to make this launch a success

372

00:14:35,030 --> 00:14:33,440  
and i'll turn it back to you george

373

00:14:37,509 --> 00:14:35,040  
right thank you vern

374

00:14:39,670 --> 00:14:37,519  
and now to ken schwer the npp project

375

00:14:42,230 --> 00:14:39,680  
manager from nasa's goddard space flight

376

00:14:45,189 --> 00:14:42,240

center ken thank you george

377

00:14:47,189 --> 00:14:45,199

just a few miles from here sets the npp

378

00:14:48,470 --> 00:14:47,199

satellite on top of the delta ii launch

379

00:14:50,629 --> 00:14:48,480

vehicle

380

00:14:53,910 --> 00:14:50,639

as we complete all our preparations for

381

00:14:59,269 --> 00:14:53,920

our launch on friday october 28th can i

382

00:15:03,430 --> 00:15:01,030

once the mpp satellite separates from

383

00:15:05,110 --> 00:15:03,440

the delta ii launch vehicle

384

00:15:06,470 --> 00:15:05,120

the satellite starts an automated

385

00:15:08,389 --> 00:15:06,480

sequence

386

00:15:13,030 --> 00:15:08,399

where the control system maneuvers the

387

00:15:15,110 --> 00:15:13,040

satellite for solar ray deployment

388

00:15:17,189 --> 00:15:15,120

this makes sure we get the proper power

389

00:15:18,710 --> 00:15:17,199

into the system so we can have the

390

00:15:20,389 --> 00:15:18,720

health and safety of the satellite where

391

00:15:22,550 --> 00:15:20,399

we need it

392

00:15:24,550 --> 00:15:22,560

after deployment the communication

393

00:15:26,949 --> 00:15:24,560

systems on the satellite is configured

394

00:15:29,189 --> 00:15:26,959

for ground contact this is when my

395

00:15:32,230 --> 00:15:29,199

mission operations team has the first

396

00:15:34,629 --> 00:15:32,240

opportunity to verify and ensure the

397

00:15:37,269 --> 00:15:34,639

safety and health of the satellite

398

00:15:40,470 --> 00:15:37,279

this all happens in about 30 minutes

399

00:15:43,670 --> 00:15:40,480

after separation

400

00:15:45,269 --> 00:15:43,680

the npp satellite will orbit 512 miles

401  
00:15:46,790 --> 00:15:45,279  
above our homes

402  
00:15:48,949 --> 00:15:46,800  
and will be controlled from noaa's

403  
00:15:50,790 --> 00:15:48,959  
satellite operations facility in

404  
00:15:52,710 --> 00:15:50,800  
suitland maryland

405  
00:15:55,189 --> 00:15:52,720  
the npp satellite will send down about

406  
00:15:57,829 --> 00:15:55,199  
four terabytes of data a day

407  
00:16:00,230 --> 00:15:57,839  
to svalbard norway which is an antenna

408  
00:16:02,790 --> 00:16:00,240  
site inside the arctic circle

409  
00:16:07,590 --> 00:16:02,800  
four terabytes of data is approximately

410  
00:16:11,670 --> 00:16:09,110  
this is what makes the aerospace

411  
00:16:12,949 --> 00:16:11,680  
industry so exciting

412  
00:16:14,710 --> 00:16:12,959  
one day

413  
00:16:16,870 --> 00:16:14,720

a person has a concept to meet our

414

00:16:19,590 --> 00:16:16,880

nation's needs

415

00:16:22,629 --> 00:16:19,600

next that concept is put to paper

416

00:16:24,710 --> 00:16:22,639

where many dedicated people work as a

417

00:16:26,069 --> 00:16:24,720

team throughout the development

418

00:16:28,870 --> 00:16:26,079

until one day

419

00:16:32,230 --> 00:16:28,880

a satellite like npp

420

00:16:36,230 --> 00:16:34,230

the challenges triumphs and

421

00:16:37,749 --> 00:16:36,240

relationships

422

00:16:40,629 --> 00:16:37,759

during npp

423

00:16:44,069 --> 00:16:40,639

will last a lifetime

424

00:16:46,550 --> 00:16:44,079

and support and help future endeavors

425

00:16:48,069 --> 00:16:46,560

during my npp team's journey we

426  
00:16:50,710 --> 00:16:48,079  
successfully maintained schedule the

427  
00:16:53,030 --> 00:16:50,720  
past two years while completing a

428  
00:16:55,189 --> 00:16:53,040  
satellite comprehensive environmental

429  
00:16:56,949 --> 00:16:55,199  
program and ensuring the readiness of

430  
00:16:59,269 --> 00:16:56,959  
the ground system and the mission

431  
00:17:01,110 --> 00:16:59,279  
operations team

432  
00:17:03,590 --> 00:17:01,120  
the npp satellite was built by ball

433  
00:17:05,270 --> 00:17:03,600  
aerospace in boulder colorado where all

434  
00:17:07,750 --> 00:17:05,280  
five instruments were delivered and

435  
00:17:10,390 --> 00:17:07,760  
integrated to the spacecraft

436  
00:17:12,230 --> 00:17:10,400  
after integration the npp satellite is

437  
00:17:14,309 --> 00:17:12,240  
about thirteen and a half feet long and

438  
00:17:16,630 --> 00:17:14,319

weighs about forty five hundred pounds

439

00:17:22,230 --> 00:17:16,640

it's a pretty nice size suv

440

00:17:25,590 --> 00:17:23,909

the mvp saddle was shipped from boulder

441

00:17:27,829 --> 00:17:25,600

colorado and arrived to vanderberg air

442

00:17:29,270 --> 00:17:27,839

force base on august 30th

443

00:17:30,310 --> 00:17:29,280

the environmentally controlled shipping

444

00:17:32,470 --> 00:17:30,320

container

445

00:17:35,110 --> 00:17:32,480

here you can see the team carefully

446

00:17:37,590 --> 00:17:35,120

removing npp from the shipping container

447

00:17:39,270 --> 00:17:37,600

and installing it on our mechanical

448

00:17:43,510 --> 00:17:39,280

support structure

449

00:17:46,230 --> 00:17:43,520

because it can elevate and rotate the

450

00:17:47,510 --> 00:17:46,240

spacecraft to any position so our

451  
00:17:49,110 --> 00:17:47,520  
engineers

452  
00:17:51,270 --> 00:17:49,120  
can prepare

453  
00:17:53,510 --> 00:17:51,280  
mpp for launch

454  
00:17:55,990 --> 00:17:53,520  
after we complete all the preparations a

455  
00:17:58,390 --> 00:17:56,000  
protective canister is installed over

456  
00:17:59,990 --> 00:17:58,400  
npp

457  
00:18:09,990 --> 00:18:00,000  
here you can see them building up and

458  
00:18:15,190 --> 00:18:11,190  
once they're complete with those

459  
00:18:19,590 --> 00:18:18,150  
we carefully and slowly of course

460  
00:18:21,029 --> 00:18:19,600  
in the wee hours of the morning when it

461  
00:18:23,190 --> 00:18:21,039  
was dark

462  
00:18:26,310 --> 00:18:23,200  
take this two-mile trip out to the delta

463  
00:18:30,630 --> 00:18:28,630

this is where tim has showed you

464

00:18:32,549 --> 00:18:30,640

that the canister is lifted and we're

465

00:18:34,870 --> 00:18:32,559

finally mated

466

00:18:38,150 --> 00:18:34,880

to the delta ii which we've been working

467

00:18:42,950 --> 00:18:39,350

this week

468

00:18:45,270 --> 00:18:42,960

the npp and delta teams completed all

469

00:18:46,310 --> 00:18:45,280

readiness reviews and the mission dress

470

00:18:48,630 --> 00:18:46,320

rehearsal

471

00:18:51,190 --> 00:18:48,640

which prepares the launch team

472

00:18:52,549 --> 00:18:51,200

with simulated anomalies

473

00:18:55,270 --> 00:18:52,559

npp

474

00:18:56,950 --> 00:18:55,280

is ready for launch

475

00:18:59,430 --> 00:18:56,960

the nasa goddard space flight center

476  
00:19:01,350 --> 00:18:59,440  
role on npp is to manage the entire

477  
00:19:02,549 --> 00:19:01,360  
mission for nasa's earth science

478  
00:19:05,350 --> 00:19:02,559  
division

479  
00:19:07,270 --> 00:19:05,360  
this included acquiring the spacecraft

480  
00:19:09,029 --> 00:19:07,280  
two of the five instruments

481  
00:19:11,110 --> 00:19:09,039  
working with the kennedy space center

482  
00:19:13,430 --> 00:19:11,120  
for the delta ii launch vehicle

483  
00:19:16,950 --> 00:19:13,440  
and overall mission systems engineering

484  
00:19:21,909 --> 00:19:19,510  
over the past five decades the nasa

485  
00:19:24,789 --> 00:19:21,919  
goddard space flight center has managed

486  
00:19:27,909 --> 00:19:24,799  
and launched over 260

487  
00:19:31,350 --> 00:19:27,919  
successful missions in the space

488  
00:19:34,549 --> 00:19:31,360

npp has touched so many lives already

489

00:19:36,870 --> 00:19:34,559

and my team is so excited for npp to

490

00:19:39,190 --> 00:19:36,880

touch the rest of the world

491

00:19:40,789 --> 00:19:39,200

with climate studies enhanced weather

492

00:19:42,070 --> 00:19:40,799

forecasting

493

00:19:44,230 --> 00:19:42,080

and monitoring

494

00:19:46,470 --> 00:19:44,240

of critical events

495

00:19:50,310 --> 00:19:46,480

npp's bumper sticker could read

496

00:19:53,430 --> 00:19:50,320

npp our planet's lifeguard

497

00:19:55,510 --> 00:19:53,440

thank you back to you george thanks ken

498

00:19:57,350 --> 00:19:55,520

now the weather forecast for friday

499

00:19:59,110 --> 00:19:57,360

morning lieutenant lisa cochran the

500

00:20:01,270 --> 00:19:59,120

launch weather officer from the 30th

501  
00:20:02,390 --> 00:20:01,280  
operation support squadron lisa thank

502  
00:20:04,070 --> 00:20:02,400  
you george

503  
00:20:05,909 --> 00:20:04,080  
the month of october is part of a

504  
00:20:08,390 --> 00:20:05,919  
transitional weather season for the

505  
00:20:10,470 --> 00:20:08,400  
central coast of california it's marked

506  
00:20:12,470 --> 00:20:10,480  
by the disruption of

507  
00:20:14,870 --> 00:20:12,480  
the marine layer and the associated fog

508  
00:20:17,270 --> 00:20:14,880  
we see with that by low pressure systems

509  
00:20:18,830 --> 00:20:17,280  
moving down the coast

510  
00:20:21,350 --> 00:20:18,840  
if you'll turn to the current satellite

511  
00:20:23,110 --> 00:20:21,360  
loop one of those low pressure systems

512  
00:20:25,750 --> 00:20:23,120  
made its way in from the northwest just

513  
00:20:28,149 --> 00:20:25,760

a few days ago and we

514

00:20:29,110 --> 00:20:28,159

received cold frontal passage this

515

00:20:31,029 --> 00:20:29,120

morning

516

00:20:33,110 --> 00:20:31,039

you can see as it continues to push off

517

00:20:35,350 --> 00:20:33,120

to the east the clouds associated with

518

00:20:37,029 --> 00:20:35,360

it as it does continue to move off to

519

00:20:39,270 --> 00:20:37,039

the east high pressure is going to start

520

00:20:41,430 --> 00:20:39,280

to build back in behind that which is

521

00:20:43,029 --> 00:20:41,440

going to create an offshore flow for us

522

00:20:44,870 --> 00:20:43,039

here at vanderberg

523

00:20:47,190 --> 00:20:44,880

with this wind pattern it will keep that

524

00:20:49,270 --> 00:20:47,200

marine layer well off the coast

525

00:20:51,830 --> 00:20:49,280

and it will give us unrestricted

526  
00:20:53,830 --> 00:20:51,840  
visibility and favorable sky conditions

527  
00:20:56,149 --> 00:20:53,840  
for launch day

528  
00:20:58,710 --> 00:20:56,159  
so the forecast for the launch window

529  
00:21:01,510 --> 00:20:58,720  
for october 28th you can expect upper

530  
00:21:04,710 --> 00:21:01,520  
level clouds few coverage from

531  
00:21:07,430 --> 00:21:04,720  
25 000 feet to 27 000 feet with

532  
00:21:09,110 --> 00:21:07,440  
unrestricted visibility and no weather

533  
00:21:11,110 --> 00:21:09,120  
our winds will be out of the east around

534  
00:21:14,310 --> 00:21:11,120  
8 to 12 knots and temperatures will

535  
00:21:16,230 --> 00:21:14,320  
range in the upper 40s to low 50s

536  
00:21:18,950 --> 00:21:16,240  
and finally for the 24 hour scrub

537  
00:21:21,430 --> 00:21:18,960  
forecast on the 29th expect very similar

538  
00:21:23,909 --> 00:21:21,440

conditions as the previous day just

539

00:21:27,350 --> 00:21:23,919

increasing upper-level clouds around 5 8

540

00:21:29,029 --> 00:21:27,360

coverage from 24 000 to 28 000 feet

541

00:21:30,630 --> 00:21:29,039

still unrestricted visibility and no

542

00:21:32,789 --> 00:21:30,640

significant weather and our winds will

543

00:21:34,630 --> 00:21:32,799

still be out of the east around 8 to 12

544

00:21:37,110 --> 00:21:34,640

knots and temperatures still the same as

545

00:21:41,990 --> 00:21:37,120

well this gives us an over pro overall

546

00:21:44,870 --> 00:21:42,000

probability of zero percent for both t0

547

00:21:46,070 --> 00:21:44,880

and for the scrub day as well

548

00:21:48,470 --> 00:21:46,080

our launch weather team is going to

549

00:21:50,470 --> 00:21:48,480

continue to monitor the weather up

550

00:21:52,230 --> 00:21:50,480

through the launch window and it will

551  
00:21:53,830 --> 00:21:52,240  
make any updates as needed but it's

552  
00:21:55,750 --> 00:21:53,840  
going to look like it's looking to be a

553  
00:21:58,390 --> 00:21:55,760  
very favorable weather conditions for

554  
00:21:59,510 --> 00:21:58,400  
launch day

555  
00:22:01,750 --> 00:21:59,520  
thank you

556  
00:22:03,669 --> 00:22:01,760  
and we're ready now to take questions

557  
00:22:06,390 --> 00:22:03,679  
please give your name an affiliation

558  
00:22:09,830 --> 00:22:06,400  
when the microphone comes to you

559  
00:22:15,510 --> 00:22:09,840  
so we can start here in the front and

560  
00:22:19,029 --> 00:22:17,029  
all right no

561  
00:22:21,270 --> 00:22:19,039  
questions for our media here

562  
00:22:23,990 --> 00:22:21,280  
and any questions from the media at the

563  
00:22:25,510 --> 00:22:24,000

other nasa centers

564

00:22:27,590 --> 00:22:25,520

all right no questions at the other

565

00:22:28,630 --> 00:22:27,600

centers well we do have a question uh

566

00:22:30,149 --> 00:22:28,640

from

567

00:22:32,390 --> 00:22:30,159

justin ray

568

00:22:33,669 --> 00:22:32,400

i just write with uh spaceflightnow.com

569

00:22:36,710 --> 00:22:33,679

i guess for ken i was wondering if you

570

00:22:38,950 --> 00:22:36,720

could compare mpp to the previous

571

00:22:41,270 --> 00:22:38,960

uh polar orbiter weather satellites and

572

00:22:43,990 --> 00:22:41,280

so forth how big of a leap npp

573

00:22:46,390 --> 00:22:44,000

represents from from previous

574

00:22:48,390 --> 00:22:46,400

missions of this sort

575

00:22:50,310 --> 00:22:48,400

um i could address that somewhat i do

576

00:22:52,870 --> 00:22:50,320

encourage you to stick around for the

577

00:22:54,549 --> 00:22:52,880

next briefing where my project scientist

578

00:22:55,750 --> 00:22:54,559

jim gleason could give a more thorough

579

00:22:57,190 --> 00:22:55,760

answer

580

00:22:59,029 --> 00:22:57,200

but one of the things with our

581

00:23:01,430 --> 00:22:59,039

partnership with noaa that we've had in

582

00:23:02,950 --> 00:23:01,440

over excess of 40 years on our research

583

00:23:04,549 --> 00:23:02,960

satellites like earth observing

584

00:23:06,230 --> 00:23:04,559

satellites

585

00:23:08,070 --> 00:23:06,240

where we do the research that also gives

586

00:23:10,230 --> 00:23:08,080

us the opportunity to prove out those

587

00:23:12,149 --> 00:23:10,240

instruments and those capabilities

588

00:23:14,549 --> 00:23:12,159

so on the next generation weather

589

00:23:17,190 --> 00:23:14,559

satellites we can start to factor in

590

00:23:19,029 --> 00:23:17,200

that technology and that resolution

591

00:23:21,510 --> 00:23:19,039

into the weather community

592

00:23:25,029 --> 00:23:21,520

one aspect of npp npp is sending down

593

00:23:29,830 --> 00:23:25,039

about twice as much data as each of our

594

00:23:34,149 --> 00:23:31,350

all right we have one question that's

595

00:23:36,390 --> 00:23:34,159

come in online and steve cole from nasa

596

00:23:38,310 --> 00:23:36,400

headquarters will read that to us thank

597

00:23:41,430 --> 00:23:38,320

you george this is from steve rousseau

598

00:23:45,669 --> 00:23:41,440

at popular mechanics it's for ken

599

00:23:48,070 --> 00:23:45,679

how long will npp be operational

600

00:23:50,230 --> 00:23:48,080

the mpp instruments have a design life

601  
00:23:52,390 --> 00:23:50,240  
for seven years

602  
00:23:53,990 --> 00:23:52,400  
this mission npp was always envisioned

603  
00:23:55,750 --> 00:23:54,000  
to be

604  
00:23:58,470 --> 00:23:55,760  
a risk reduction mission

605  
00:24:01,029 --> 00:23:58,480  
for the overall operational system so

606  
00:24:03,269 --> 00:24:01,039  
the npp spacecraft is a five-year design

607  
00:24:05,350 --> 00:24:03,279  
spacecraft bus of course like all our

608  
00:24:07,269 --> 00:24:05,360  
satellites we want them to live as long

609  
00:24:09,510 --> 00:24:07,279  
as we can

610  
00:24:12,149 --> 00:24:09,520  
but during the development of of three

611  
00:24:14,310 --> 00:24:12,159  
of the instruments viirs chris and omps

612  
00:24:16,149 --> 00:24:14,320  
that was delivered by our partners

613  
00:24:18,390 --> 00:24:16,159

there were significant development

614

00:24:20,070 --> 00:24:18,400

issues that arose throughout the years

615

00:24:21,430 --> 00:24:20,080

which leads residual risk in those

616

00:24:23,830 --> 00:24:21,440

instruments

617

00:24:25,669 --> 00:24:23,840

the teams did everything they could to

618

00:24:27,990 --> 00:24:25,679

make sure that as appropriate

619

00:24:29,430 --> 00:24:28,000

instrumentation for the npp risk

620

00:24:32,710 --> 00:24:29,440

reduction mission

621

00:24:34,310 --> 00:24:32,720

the follow-on program jpss has had an

622

00:24:35,909 --> 00:24:34,320

undertaking to go through all the

623

00:24:38,230 --> 00:24:35,919

requirements all the lessons learned

624

00:24:40,870 --> 00:24:38,240

from npp whether it's from a hardware

625

00:24:43,269 --> 00:24:40,880

design manufacturing sense and

626  
00:24:45,269 --> 00:24:43,279  
incorporate as much as they can to where

627  
00:24:47,669 --> 00:24:45,279  
we have a better feeling of those

628  
00:24:50,470 --> 00:24:47,679  
instruments from a longevity sense

629  
00:24:52,310 --> 00:24:50,480  
also the lessons learned from npp

630  
00:24:54,390 --> 00:24:52,320  
the noaa and the other scientific and

631  
00:24:57,029 --> 00:24:54,400  
operational users they get this gives

632  
00:24:58,070 --> 00:24:57,039  
them a time to update algorithm and data

633  
00:25:00,549 --> 00:24:58,080  
products

634  
00:25:03,029 --> 00:25:00,559  
so when the operational system comes on

635  
00:25:05,029 --> 00:25:03,039  
there's a much better sequence there see

636  
00:25:07,110 --> 00:25:05,039  
everything about npp is new the

637  
00:25:09,510 --> 00:25:07,120  
instruments are new the spacecraft's new

638  
00:25:11,590 --> 00:25:09,520

the ground system is new so this gives

639

00:25:14,149 --> 00:25:11,600

us an opportunity which i like to call

640

00:25:15,909 --> 00:25:14,159

clean out the pipes for jpss make sure

641

00:25:20,230 --> 00:25:15,919

everything is working for when the

642

00:25:23,110 --> 00:25:20,240

operational system is is comes online

643

00:25:24,789 --> 00:25:23,120

uh additional questions uh how is npp

644

00:25:27,430 --> 00:25:24,799

going to help predict hurricanes and

645

00:25:30,710 --> 00:25:27,440

other major weather patterns and how

646

00:25:32,789 --> 00:25:30,720

important is this data to that effort

647

00:25:34,470 --> 00:25:32,799

well i i definitely encourage the person

648

00:25:36,470 --> 00:25:34,480

to ask that question is to listen to the

649

00:25:38,470 --> 00:25:36,480

next briefing

650

00:25:40,310 --> 00:25:38,480

okay great one last question uh this was

651  
00:25:42,870 --> 00:25:40,320  
directed to andy

652  
00:25:46,070 --> 00:25:42,880  
when will jpss the mission that you

653  
00:25:48,870 --> 00:25:46,080  
mentioned take over for npp and why was

654  
00:25:55,350 --> 00:25:52,630  
well the the jpss mission um yeah we can

655  
00:25:56,549 --> 00:25:55,360  
get you in touch with the jpss

656  
00:25:57,990 --> 00:25:56,559  
program

657  
00:25:59,909 --> 00:25:58,000  
later on but

658  
00:26:02,310 --> 00:25:59,919  
i can tell you right now the jpss

659  
00:26:04,149 --> 00:26:02,320  
mission jpss-1 is planned for launch in

660  
00:26:05,510 --> 00:26:04,159  
late 2016.

661  
00:26:07,750 --> 00:26:05,520  
and

662  
00:26:10,710 --> 00:26:07,760  
given the the five-year operational life

663  
00:26:12,310 --> 00:26:10,720

that ken just spoke to that then

664

00:26:14,549 --> 00:26:12,320

that would that would be picking up

665

00:26:16,870 --> 00:26:14,559

right after the the end of mpp's

666

00:26:17,830 --> 00:26:16,880

operational life

667

00:26:19,909 --> 00:26:17,840

so

668

00:26:22,470 --> 00:26:19,919

all right any other questions from media

669

00:26:24,470 --> 00:26:22,480

here in the room

670

00:26:26,390 --> 00:26:24,480

all right in that event we will pause

671

00:26:29,510 --> 00:26:26,400

just long enough to change our players