



1
00:00:17,300 --> 00:00:18,560
>>> Good morning, everyone.

2
00:00:18,560 --> 00:00:25,090
This is the post launch news
conference and here to talk

3
00:00:25,090 --> 00:00:28,220
about how the launch went and
how the mission is going, we

4
00:00:28,220 --> 00:00:32,660
have Joel, the international
space station program manager

5
00:00:32,660 --> 00:00:39,260
for utilization for Johnston
space center and Hans is the

6
00:00:39,260 --> 00:00:43,010
vice president of light
reliability for space acts.

7
00:00:43,010 --> 00:00:45,710
I will begin with Joel.

8
00:00:45,710 --> 00:00:46,710
Joel?

9
00:00:46,710 --> 00:00:47,850
>> Good morning again.

10
00:00:47,850 --> 00:00:50,940
It's exciting to have a dragon
back in orbit.

11
00:00:50,940 --> 00:00:54,399
It's a great day for space x and
NASA.

12
00:00:54,399 --> 00:00:57,359
The team is a phenomenal team.

13
00:00:57,359 --> 00:01:01,800
The launch campaign was
fantastic to watch and we are

14
00:01:01,800 --> 00:01:05,489
proud of them and excited to
have the dragon up in orbit.

15
00:01:05,489 --> 00:01:08,930
We are looking for a grapple of
the vehicle that dragon is doing

16
00:01:08,930 --> 00:01:10,240
fine.

17
00:01:10,240 --> 00:01:15,280
Wednesday morning Eastern time
around 7:00 a.m., as far as

18
00:01:15,280 --> 00:01:18,820
other activities, since we last
talked, the progress vehicle has

19
00:01:18,820 --> 00:01:20,950
launch and is doing fine.

20
00:01:20,950 --> 00:01:28,660
We will be docking around 8:20,
8:23 Kennedy space center time.

21
00:01:28,660 --> 00:01:31,520
As far as the crew and the
vehicle, we are doing great.

22
00:01:31,520 --> 00:01:35,480

We pumped it up to the crew and they were able to watch it.

23

00:01:35,480 --> 00:01:38,610

We will talk to them in a couple of hours and get their thoughts,

24

00:01:38,610 --> 00:01:44,490

but they are with the science brought up on the dragon

25

00:01:44,490 --> 00:01:45,780

vehicle.

26

00:01:45,780 --> 00:01:48,470

Looking forward to putting that science and putting the vehicle

27

00:01:48,470 --> 00:01:53,110

into the document after on board the international space station.

28

00:01:53,110 --> 00:01:57,450

As you are well aware, it's another step forward to enabling

29

00:01:57,450 --> 00:02:01,800

the commercial crew vehicles.

30

00:02:01,800 --> 00:02:05,920

I can't say too much, but we are excited that these guys are on

31

00:02:05,920 --> 00:02:08,479

board and dragon is on the way to the international space

32

00:02:08,479 --> 00:02:09,920

station.

33

00:02:09,920 --> 00:02:11,610

>> Thank you very much.

34

00:02:11,610 --> 00:02:14,550

>> Thanks, Joel.

35

00:02:14,550 --> 00:02:16,010

Hans?

36

00:02:16,010 --> 00:02:19,420

>> Thanks for being here.

37

00:02:19,420 --> 00:02:20,840

Good day.

38

00:02:20,840 --> 00:02:23,540

It was really exciting.

39

00:02:23,540 --> 00:02:31,780

We had a really great launch and perfect insertion on dragon.

40

00:02:31,780 --> 00:02:37,980

Islam came back and if you missed this, it's right there

41

00:02:37,980 --> 00:02:46,290

and called them in complex run.

42

00:02:46,290 --> 00:02:55,230

And I see we started a little bit of the timeline and the team

43

00:02:55,230 --> 00:02:58,080

that formed really awesome.

44

00:02:58,080 --> 00:03:06,630

They put on the timeline and

finished the launch.

45

00:03:06,630 --> 00:03:09,590

These are launches that have one second into them and they have

46

00:03:09,590 --> 00:03:14,010

to get ready when the time comes and you are ready when the time

47

00:03:14,010 --> 00:03:15,440

came today.

48

00:03:15,440 --> 00:03:19,140

A good day.

49

00:03:19,140 --> 00:03:24,210

I also talked after the launch and he was excited that the

50

00:03:24,210 --> 00:03:31,150

stage was back and his comment

51

00:03:31,150 --> 00:03:37,250

was also that one day they pay less attention to this and

52

00:03:37,250 --> 00:03:42,120

that's the day when they succeed.

53

00:03:42,120 --> 00:03:44,340

That's about a half hour.

54

00:03:44,340 --> 00:03:45,400

>> Thank you.

55

00:03:45,400 --> 00:03:47,370

We are ready now to take questions.

56

00:03:47,370 --> 00:03:50,960

To get your name and affiliation when the microphone comes to

57

00:03:50,960 --> 00:03:51,960

you.

58

00:03:51,960 --> 00:03:58,209

We will start here.

59

00:03:58,209 --> 00:04:02,900

>> Ken Cramer for universe today in Northeast astronomy forum.

60

00:04:02,900 --> 00:04:05,930

Give us a preliminary assessment of the first stage.

61

00:04:05,930 --> 00:04:08,950

How did it fare on the landing?

62

00:04:08,950 --> 00:04:10,540

Had it gone as expected some.

63

00:04:10,540 --> 00:04:15,410

>> From what I saw on the video and the camera, it was about the

64

00:04:15,410 --> 00:04:18,519

same at the out come stage in good shape.

65

00:04:18,519 --> 00:04:25,880

A little bit for the reentry, but I didn't see this one.

66

00:04:25,880 --> 00:04:32,960

I saw the entry burns and then they kept ongoing after that.

67

00:04:32,960 --> 00:04:37,159

It was good to see the stages.

68

00:04:37,159 --> 00:04:41,789

From what I can see it was excellent shape and probably

69

00:04:41,789 --> 00:04:44,100

pretty soon.

70

00:04:44,100 --> 00:04:51,809

>> Another question near the front.

71

00:04:51,809 --> 00:04:53,939

>> Two questions for Hans.

72

00:04:53,939 --> 00:04:57,250

Thanks for staying up with us.

73

00:04:57,250 --> 00:05:01,440

The ability to land the first rocket depends on where it's

74

00:05:01,440 --> 00:05:05,439

going and how fast and how far it's going.

75

00:05:05,439 --> 00:05:11,150

With falcon slated for launch earlier this year, will it have

76

00:05:11,150 --> 00:05:14,550

the same capabilities of going faster and further?

77

00:05:14,550 --> 00:05:22,740

>> It depends on the stages.

78

00:05:22,740 --> 00:05:27,949

And two sides will be able to go back.

79

00:05:27,949 --> 00:05:32,580

It probably depends on the mission whether it goes back and

80

00:05:32,580 --> 00:05:35,490

lands.

81

00:05:35,490 --> 00:05:42,610

I believe you are going to land with the team.

82

00:05:42,610 --> 00:05:47,509

I don't think it's going to make a big difference.

83

00:05:47,509 --> 00:05:51,810

That means you have to ship it back and it's going to spend a

84

00:05:51,810 --> 00:05:57,840

couple more days.

85

00:05:57,840 --> 00:05:59,690

>> Landings on the first flight?

86

00:05:59,690 --> 00:06:02,189

>> I think so, yes.

87

00:06:02,189 --> 00:06:05,869

>> A question right here.

88

00:06:05,869 --> 00:06:08,809
>> We record space for them with
two boosters coming back.

89
00:06:08,809 --> 00:06:10,919
One goes to landing zone one.

90
00:06:10,919 --> 00:06:13,919
Where will the other go?

91
00:06:13,919 --> 00:06:14,919
>> Landing zone two.

92
00:06:14,919 --> 00:06:16,629
>> Where will that be?

93
00:06:16,629 --> 00:06:22,120
>> So I believe they are working
on a new pad.

94
00:06:22,120 --> 00:06:27,869
That's not far from it, but far
enough so the two stages are not

95
00:06:27,869 --> 00:06:31,939
influencing each other.

96
00:06:31,939 --> 00:06:34,189
>> Let's switch over to the
phones.

97
00:06:34,189 --> 00:06:36,819
We have James dean on the line
from Florida.

98
00:06:36,819 --> 00:06:37,830
James?

99
00:06:37,830 --> 00:06:39,840

>> Thank you.

100

00:06:39,840 --> 00:06:47,050

Hans, hard enough paying attention to the landings.

101

00:06:47,050 --> 00:06:53,759

I gather they were just a great distance away and they were

102

00:06:53,759 --> 00:06:57,759

maybe prompting the 911 calls tonight.

103

00:06:57,759 --> 00:07:01,990

I wondered about your reaction to that and is it something that

104

00:07:01,990 --> 00:07:04,129

might factor into the mission planning.

105

00:07:04,129 --> 00:07:10,889

The timing of these things and how people will react.

106

00:07:10,889 --> 00:07:21,610

>> There was a sonic boom tonight and we heard it a great

107

00:07:21,610 --> 00:07:27,330

distance away and that prompted 911 calls and I wonder what the

108

00:07:27,330 --> 00:07:33,909

reaction was to that.

109

00:07:33,909 --> 00:07:37,060

When did you manage that for the future?

110

00:07:37,060 --> 00:07:40,289

>> They would be asking about the sonic booms.

111

00:07:40,289 --> 00:07:44,509

Did I understand that right?

112

00:07:44,509 --> 00:07:48,231

>> We actually announced this and tell people that there is

113

00:07:48,231 --> 00:07:53,809

going to be a sonic boom, in my eyes is very similar to the

114

00:07:53,809 --> 00:07:55,699

Schultz.

115

00:07:55,699 --> 00:08:00,020

People can recognize it and I remember hearing that in a

116

00:08:00,020 --> 00:08:04,409

couple of times.

117

00:08:04,409 --> 00:08:08,529

They had a characteristic boom and the Schultz was coming back.

118

00:08:08,529 --> 00:08:13,270

It will be the same thing eventually and people get used

119

00:08:13,270 --> 00:08:15,319

to this particular sonic boom.

120

00:08:15,319 --> 00:08:24,009

It's different and they will

come back and I believe it's

121

00:08:24,009 --> 00:08:25,009
going to be the same thing.

122

00:08:25,009 --> 00:08:28,020
It will take time to get used to
it.

123

00:08:28,020 --> 00:08:32,250
They will announce it in time
and let people know.

124

00:08:32,250 --> 00:08:37,089
>> Thanks and I was wondering if
you can give us an update on

125

00:08:37,089 --> 00:08:39,820
what is coming up next.

126

00:08:39,820 --> 00:08:49,300
>> Next is I think another call.

127

00:08:49,300 --> 00:08:56,379
Those are too.

128

00:08:56,379 --> 00:09:01,470
>> For whatever is next.

129

00:09:01,470 --> 00:09:09,450
>> I think it's going to be.

130

00:09:09,450 --> 00:09:20,449
>> I believe it's in the first
half and I think that's by the

131

00:09:20,449 --> 00:09:24,560
end of August.

132

00:09:24,560 --> 00:09:29,480

>> You have a question for mark?

133

00:09:29,480 --> 00:09:32,570

>> Historical aerospace Hughes.

134

00:09:32,570 --> 00:09:37,269

Congratulations to yourself for
the dedicated people of space x,

135

00:09:37,269 --> 00:09:39,120

NASA and the 41st space wing.

136

00:09:39,120 --> 00:09:43,750

This was a mission of perfection
reminiscent of the mission.

137

00:09:43,750 --> 00:09:45,149

It looks fantastic.

138

00:09:45,149 --> 00:09:52,660

Based on that success, I have a
question for you, Hans.

139

00:09:52,660 --> 00:09:54,230

That is this.

140

00:09:54,230 --> 00:10:00,579

What was the weight of the†--
the weight and initial speed of

141

00:10:00,579 --> 00:10:04,810

the first stage of the falcon 9
returning to land as it did

142

00:10:04,810 --> 00:10:06,440

tonight?

143

00:10:06,440 --> 00:10:09,480
>> You mean the weight by the
time it separates?

144
00:10:09,480 --> 00:10:10,480
>> Yes.

145
00:10:10,480 --> 00:10:12,339
When it was coming down and
landed on the x.

146
00:10:12,339 --> 00:10:21,190
>> I don't remember exactly what
the per pound rate is, but it

147
00:10:21,190 --> 00:10:25,430
weighs around 60,000 pounds.

148
00:10:25,430 --> 00:10:27,550
I'm sorry.

149
00:10:27,550 --> 00:10:28,800
We have to get back to you.

150
00:10:28,800 --> 00:10:32,559
I don't think I remember that
number off the top of my head.

151
00:10:32,559 --> 00:10:33,610
>> Okay.

152
00:10:33,610 --> 00:10:35,769
Thank you very much for
answering my question.

153
00:10:39,180 --> 00:10:36,769
>> Thank you.

154
00:10:39,180 --> 00:10:40,850

>> That's all on the phones.

155

00:10:40,850 --> 00:10:46,230

You can ask questions on social media as well if you have the

156

00:10:46,230 --> 00:10:50,829

hash tag†#askNASA.

157

00:10:50,829 --> 00:10:53,740

>> I assume the next two launches will be ocean landing

158

00:10:53,740 --> 00:10:54,740

attempts?

159

00:10:54,740 --> 00:10:59,860

When will you attempt the land landing again?

160

00:10:59,860 --> 00:11:08,420

>> They are coming out and I don't know the date of that, but

161

00:11:08,420 --> 00:11:11,269

I believe one of two here.

162

00:11:11,269 --> 00:11:19,040

They are likely to go back for the land landing.

163

00:11:19,040 --> 00:11:26,749

>> We have a question on social media.

164

00:11:26,749 --> 00:11:30,920

>> Do you think that the new property is about the wax

165

00:11:30,920 --> 00:11:34,839
material and method of cooling?

166

00:11:34,839 --> 00:11:40,100
>> Say that one more time?

167

00:11:40,100 --> 00:11:44,930
>> Do you think that Leo gravity
will reveal properties about the

168

00:11:44,930 --> 00:11:49,990
wax material and method of
cooling?

169

00:11:49,990 --> 00:11:52,579
>> As you are aware we are doing
science experiments all the time

170

00:11:52,579 --> 00:11:57,240
and that's a benefit of the
international space station to

171

00:11:57,240 --> 00:12:02,329
do these experiments and see it
as the testing is a result that

172

00:12:02,329 --> 00:12:07,930
we expected or is it something
that we didn't expect.

173

00:12:07,930 --> 00:12:10,670
With the crew up there, you can
adjust the experiment.

174

00:12:10,670 --> 00:12:15,889
If you see something and for
example, the question that the

175

00:12:15,889 --> 00:12:21,130
reader had and it doesn't

predict or result in how you

176

00:12:21,130 --> 00:12:24,050

predicted it, you can have them
change things.

177

00:12:24,050 --> 00:12:27,659

That's a benefit of having a
crew on board.

178

00:12:27,659 --> 00:12:31,459

>> We will go back to the phones
on CBS.

179

00:12:31,459 --> 00:12:32,459

Bill?

180

00:12:32,459 --> 00:12:34,339

>> Thank you very much, George.

181

00:12:34,339 --> 00:12:40,199

Can you give us an update on the
plans for August 22nd?

182

00:12:40,199 --> 00:12:41,770

How realistic is that date.

183

00:12:41,770 --> 00:12:47,970

Have you finished the analysis
of the issues that came up and

184

00:12:47,970 --> 00:12:50,940

anything you can add on.

185

00:12:50,940 --> 00:12:51,940

Thanks.

186

00:12:51,940 --> 00:12:52,940

>> Sure.

187

00:12:52,940 --> 00:12:54,720

August 22nd is a good date.

188

00:12:54,720 --> 00:12:57,709

We have done the work and the new trajectory.

189

00:12:57,709 --> 00:13:00,350

We handed it over to the Wallace team.

190

00:13:00,350 --> 00:13:04,670

They have taken a look and doing their assessments of the

191

00:13:04,670 --> 00:13:05,670

trajectory.

192

00:13:05,670 --> 00:13:08,140

We are looking good for August 22nd.

193

00:13:08,140 --> 00:13:09,990

>> When you say they have redone the trajectory, did that

194

00:13:09,990 --> 00:13:19,379

incorporate the settings based on the vibration issue they had?

195

00:13:19,379 --> 00:13:20,379

>> That's correct.

196

00:13:20,379 --> 00:13:22,079

>> Thank you very much.

197

00:13:22,079 --> 00:13:23,079

>> Sure.

198

00:13:23,079 --> 00:13:28,029

>> All right, let's come back to take a couple here.

199

00:13:28,029 --> 00:13:30,420

>> Hi.

200

00:13:30,420 --> 00:13:34,009

We have a question for one of the readers, Gotti Martin asked

201

00:13:34,009 --> 00:13:40,389

will the rapid reusability allow for the Spacehab at that time

202

00:13:40,389 --> 00:13:45,730

that will demand the presence in space and allow for the launch

203

00:13:45,730 --> 00:13:50,820

systems?

204

00:13:50,820 --> 00:13:55,899

>> Yes.

205

00:13:55,899 --> 00:14:02,060

>> The whole goal is to lower the cost of space travel and

206

00:14:02,060 --> 00:14:07,819

space transportation and that does enable things that are

207

00:14:07,819 --> 00:14:17,540

expensive and reach for a lot of organizations.

208

00:14:17,540 --> 00:14:25,449

Ultimately we will lower costs
and provide cheaper access to

209

00:14:25,449 --> 00:14:30,040
space based on that.

210

00:14:30,040 --> 00:14:33,620
>> We have one more question on
social media and that will do

211

00:14:33,620 --> 00:14:34,620
it.

212

00:14:34,620 --> 00:14:37,649
>> This comes from Kona and it's
a question for Hans.

213

00:14:37,649 --> 00:14:48,289
When will space x use dragon
vessels and reusing?

214

00:14:48,289 --> 00:14:54,489
>> I think it's also NASA that
we have a plan, I believe.

215

00:14:54,489 --> 00:15:00,829
>> That's 11 or 12 or something
like that.

216

00:15:00,829 --> 00:15:02,110
Currently nine.

217

00:15:02,110 --> 00:15:09,449
I think not too far from now.

218

00:15:09,449 --> 00:15:12,730
>> One more here.

219

00:15:12,730 --> 00:15:20,040

>> I was hoping to hear and confirm if space x was planning

220

00:15:20,040 --> 00:15:28,540
on reusing other parts.

221

00:15:28,540 --> 00:15:38,430
I would say in refer now, they will eventually be able to do

222

00:15:38,430 --> 00:15:39,430
that.

223

00:15:39,430 --> 00:15:43,089
There is going to be modifications and we will test

224

00:15:43,089 --> 00:15:45,529
it out again.

225

00:15:45,529 --> 00:15:48,120
I don't think I have a schedule on that.

226

00:15:48,120 --> 00:15:52,949
That's going to be a couple more until you can drop that out.

227

00:15:52,949 --> 00:15:58,509
>> Is there an estimated cost in doing so?

228

00:15:58,509 --> 00:16:01,410
>> The Bill sharing is expensive.

229

00:16:01,410 --> 00:16:09,730
It's a huge structure.

230

00:16:09,730 --> 00:16:13,720

It's made of composites and it takes a lot of time.

231

00:16:13,720 --> 00:16:16,120

It doesn't take too much.

232

00:16:16,120 --> 00:16:22,800

I want to say given the size of it, it's nevertheless a lot of

233

00:16:22,800 --> 00:16:24,860

money.

234

00:16:24,860 --> 00:16:27,060

I don't think I have a particular number that I can

235

00:16:27,060 --> 00:16:28,060

give you.

236

00:16:28,060 --> 00:16:32,560

It's going to reduce cost.

237

00:16:32,560 --> 00:16:34,139

>> That's going to conclude the questions.

238

00:16:34,139 --> 00:16:37,079

We have a replay for you to watch.

239

00:16:37,079 --> 00:16:40,350

At that point we will conclude our briefing.

240

00:16:40,350 --> 00:16:41,949

Thank you very much.

241

00:16:41,949 --> 00:16:59,309

>> T minus 10, 9, 8, 7, 6, 5, 4,
3, 2, 1, main engines up and

242

00:16:59,309 --> 00:17:05,220

running and lift off of the
falcon 9 to the space station.