



 @Commercial_Crew

1
00:00:03,270 --> 00:00:01,829
crew

2
00:00:06,389 --> 00:00:03,280
transportation to the international

3
00:00:09,270 --> 00:00:06,399
space station to and from the station is

4
00:00:11,749 --> 00:00:09,280
currently provided by the russian soyuz

5
00:00:13,669 --> 00:00:11,759
spacecraft in which the

6
00:00:17,029 --> 00:00:13,679
three crew members arrive

7
00:00:20,070 --> 00:00:17,039
on what's known as indirect rotations

8
00:00:21,670 --> 00:00:20,080
obviously a program that's underway here

9
00:00:25,189 --> 00:00:21,680
on the ground the commercial crew

10
00:00:28,710 --> 00:00:25,199
program officially is three years old it

11
00:00:30,790 --> 00:00:28,720
was last month on april 5th in 2011 that

12
00:00:31,910 --> 00:00:30,800
it was designated as a standalone

13
00:00:34,709 --> 00:00:31,920

program

14

00:00:37,350 --> 00:00:34,719

on april 21st kathy leaders was selected

15

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

to be the manager of commercial crew she

16

00:00:41,430 --> 00:00:39,040

had served in the acting role since

17

00:00:43,350 --> 00:00:41,440

october spending a lot of time between

18

00:00:45,990 --> 00:00:43,360

the kennedy space center johnson space

19

00:00:48,069 --> 00:00:46,000

center and home bases for the company

20

00:00:49,350 --> 00:00:48,079

supporting the program through space act

21

00:00:50,950 --> 00:00:49,360

agreements

22

00:00:53,350 --> 00:00:50,960

earlier she stopped by the public

23

00:00:54,950 --> 00:00:53,360

affairs console here in mission control

24

00:00:57,510 --> 00:00:54,960

and i asked her about her new role as

25

00:00:59,430 --> 00:00:57,520

manager and status of the program and

26
00:01:02,869 --> 00:00:59,440
also nasa's partnerships with blue

27
00:01:06,390 --> 00:01:02,879
origin boeing sierra nevada spacex and

28
00:01:11,109 --> 00:01:08,550
so we are really

29
00:01:13,590 --> 00:01:11,119
winding up a big

30
00:01:15,990 --> 00:01:13,600
portion or purpose of the program it's

31
00:01:19,190 --> 00:01:16,000
our public purpose it's really about how

32
00:01:20,710 --> 00:01:19,200
we've been working with industry to

33
00:01:23,749 --> 00:01:20,720
really

34
00:01:26,469 --> 00:01:23,759
expand and mature their capability to

35
00:01:27,270 --> 00:01:26,479
provide crew transportation capabilities

36
00:01:28,950 --> 00:01:27,280
and

37
00:01:31,030 --> 00:01:28,960
now we're getting ready to move on to

38
00:01:33,670 --> 00:01:31,040

the nasa purpose part of the the program

39

00:01:35,670 --> 00:01:33,680

which is really where we're going to get

40

00:01:38,630 --> 00:01:35,680

ready to actually contract for

41

00:01:40,789 --> 00:01:38,640

certification emissions and so all four

42

00:01:43,270 --> 00:01:40,799

of those partners honestly five partners

43

00:01:44,310 --> 00:01:43,280

have been really working hard to

44

00:01:46,149 --> 00:01:44,320

mature

45

00:01:49,030 --> 00:01:46,159

their overall designs and their

46

00:01:51,350 --> 00:01:49,040

integrated crew transportation concepts

47

00:01:53,030 --> 00:01:51,360

and then we've continued to work with

48

00:01:55,990 --> 00:01:53,040

blue origin

49

00:01:58,389 --> 00:01:56,000

as they're maturing kind of their

50

00:02:00,630 --> 00:01:58,399

medium class launch vehicle concepts and

51

00:02:01,590 --> 00:02:00,640

their rcs systems and so

52

00:02:03,670 --> 00:02:01,600

um

53

00:02:05,350 --> 00:02:03,680

it's really those two parts of the

54

00:02:06,870 --> 00:02:05,360

program that are that are pretty

55

00:02:08,710 --> 00:02:06,880

critical and right now we're really

56

00:02:10,949 --> 00:02:08,720

getting ready to

57

00:02:12,790 --> 00:02:10,959

move out onto the

58

00:02:14,390 --> 00:02:12,800

nasa portion of the program where we're

59

00:02:17,110 --> 00:02:14,400

going to have crew services to the

60

00:02:19,990 --> 00:02:17,120

international space station it's uh it's

61

00:02:22,790 --> 00:02:20,000

probably very obvious this question but

62

00:02:24,710 --> 00:02:22,800

what are the parallels between cargo and

63

00:02:27,589 --> 00:02:24,720

crew that make you a

64

00:02:29,910 --> 00:02:27,599

a perfect fit for this this job

65

00:02:32,710 --> 00:02:29,920

i was fortunate enough to be able to do

66

00:02:34,150 --> 00:02:32,720

cargo and really the the the key parts

67

00:02:36,710 --> 00:02:34,160

of cargo were

68

00:02:38,630 --> 00:02:36,720

a we had to figure out how to really

69

00:02:40,630 --> 00:02:38,640

take advantage of the experience that

70

00:02:43,030 --> 00:02:40,640

space station had with working the

71

00:02:45,110 --> 00:02:43,040

different international partner cargo

72

00:02:46,949 --> 00:02:45,120

vehicles as we were moving forward and

73

00:02:49,750 --> 00:02:46,959

then the second thing was really about

74

00:02:52,150 --> 00:02:49,760

how we looked at partnerships within the

75

00:02:54,150 --> 00:02:52,160

agency to really go accomplish what we

76

00:02:55,830 --> 00:02:54,160

need to do for cargo so the

77

00:02:58,390 --> 00:02:55,840

relationships that station had with

78

00:03:01,350 --> 00:02:58,400

c-3po and with the launch services

79

00:03:03,030 --> 00:03:01,360

program are really critical to

80

00:03:04,949 --> 00:03:03,040

us being able to

81

00:03:07,350 --> 00:03:04,959

have the cargo missions that we had to

82

00:03:09,350 --> 00:03:07,360

station and finally it's really the

83

00:03:11,589 --> 00:03:09,360

faith and our industry partners you know

84

00:03:12,949 --> 00:03:11,599

when we first started cargo

85

00:03:14,630 --> 00:03:12,959

there's a lot of people out there that

86

00:03:16,790 --> 00:03:14,640

just didn't think that

87

00:03:19,509 --> 00:03:16,800

spacex and orbital could get there and

88

00:03:21,589 --> 00:03:19,519

look at where we are today right and so

89

00:03:22,710 --> 00:03:21,599

those three things i think are really

90

00:03:26,390 --> 00:03:22,720

critical

91

00:03:27,750 --> 00:03:26,400

for us moving into crew you know we are

92

00:03:31,110 --> 00:03:27,760

working at

93

00:03:34,550 --> 00:03:31,120

the learning that we get from orion sls

94

00:03:36,789 --> 00:03:34,560

even our soyuz experience on station now

95

00:03:39,910 --> 00:03:36,799

we're reaching out with our partnerships

96

00:03:42,149 --> 00:03:39,920

with orion and sos and obviously the

97

00:03:44,309 --> 00:03:42,159

international space station program and

98

00:03:45,990 --> 00:03:44,319

continuing to kind of build on the

99

00:03:47,509 --> 00:03:46,000

relationship that we had with launch

100

00:03:50,229 --> 00:03:47,519

services program

101
00:03:52,309 --> 00:03:50,239
and then finally you know

102
00:03:54,949 --> 00:03:52,319
i know that our partners can get there

103
00:03:56,789 --> 00:03:54,959
right i've seen it happen i understand

104
00:03:59,509 --> 00:03:56,799
that they're up for this task to deliver

105
00:04:02,229 --> 00:03:59,519
crew transportation

106
00:04:04,550 --> 00:04:02,239
obviously we're wrapping up a pretty

107
00:04:07,030 --> 00:04:04,560
important phase of the program with

108
00:04:08,789 --> 00:04:07,040
the integrated capability part of the

109
00:04:10,149 --> 00:04:08,799
space act agreements that we have with

110
00:04:12,630 --> 00:04:10,159
the partners

111
00:04:14,309 --> 00:04:12,640
um i think certification is

112
00:04:16,150 --> 00:04:14,319
is one of the buzzwords out there

113
00:04:17,909 --> 00:04:16,160

especially with uh

114

00:04:19,030 --> 00:04:17,919

people that watch us very closely

115

00:04:22,469 --> 00:04:19,040

obviously

116

00:04:24,310 --> 00:04:22,479

talk about them how the program is is

117

00:04:26,390 --> 00:04:24,320

treating the certification part i've

118

00:04:28,950 --> 00:04:26,400

i've sort of watched it along but but

119

00:04:30,469 --> 00:04:28,960

obviously everybody watching us doesn't

120

00:04:33,350 --> 00:04:30,479

see what goes on behind the scenes but

121

00:04:35,510 --> 00:04:33,360

certification is a big big deal yeah

122

00:04:37,990 --> 00:04:35,520

it's really where we make sure that the

123

00:04:39,830 --> 00:04:38,000

crew transportation that the partners

124

00:04:42,550 --> 00:04:39,840

have been working on really meets our

125

00:04:43,909 --> 00:04:42,560

requirements our safety requirements and

126

00:04:45,909 --> 00:04:43,919

so

127

00:04:48,950 --> 00:04:45,919

it is really where we're going to make

128

00:04:51,110 --> 00:04:48,960

the decision about is there capability

129

00:04:54,710 --> 00:04:51,120

that they've developed really safe

130

00:04:56,230 --> 00:04:54,720

enough to actually fly our crews and so

131

00:04:59,030 --> 00:04:56,240

it's going to be a partnership

132

00:05:00,950 --> 00:04:59,040

partnership between us and

133

00:05:02,870 --> 00:05:00,960

our industry partners and we're going to

134

00:05:05,909 --> 00:05:02,880

have to figure out honestly how to do it

135

00:05:08,150 --> 00:05:05,919

in a way that enables them to kind of

136

00:05:10,310 --> 00:05:08,160

run as fast as they need to to be able

137

00:05:12,230 --> 00:05:10,320

to provide the capability within the

138

00:05:14,230 --> 00:05:12,240

time frame that we're looking at but we

139

00:05:17,830 --> 00:05:14,240

still have to make sure that

140

00:05:20,469 --> 00:05:17,840

they meet our requirements for safety

141

00:05:23,350 --> 00:05:20,479

and of course that leads obviously to

142

00:05:25,909 --> 00:05:23,360

the to the next subject and that is what

143

00:05:28,310 --> 00:05:25,919

is the timetable for the next phase

144

00:05:30,150 --> 00:05:28,320

which is the transportation capability

145

00:05:32,070 --> 00:05:30,160

part which i guess is actually the

146

00:05:34,070 --> 00:05:32,080

contract phase we've been operating

147

00:05:36,070 --> 00:05:34,080

under space act agreements now which is

148

00:05:39,110 --> 00:05:36,080

very unique to commercial crew compared

149

00:05:41,270 --> 00:05:39,120

to other programs in nasa but talk about

150

00:05:43,350 --> 00:05:41,280

what what you can about the timetable

151

00:05:46,230 --> 00:05:43,360

for the next selection

152

00:05:48,950 --> 00:05:46,240

so we are we are working towards

153

00:05:51,029 --> 00:05:48,960

the scheduled award date of the august

154

00:05:53,110 --> 00:05:51,039

time frame and

155

00:05:55,189 --> 00:05:53,120

and then that's obviously a critical

156

00:05:57,270 --> 00:05:55,199

time frame because then it's really when

157

00:05:58,790 --> 00:05:57,280

the partners can

158

00:06:01,189 --> 00:05:58,800

understand that we've made the

159

00:06:03,189 --> 00:06:01,199

investment with them to actually go

160

00:06:05,670 --> 00:06:03,199

through certification with them and then

161

00:06:07,590 --> 00:06:05,680

ultimately the

162

00:06:09,909 --> 00:06:07,600

post certification missions which are

163

00:06:13,189 --> 00:06:09,919

actually crude services missions to the

164

00:06:15,189 --> 00:06:13,199

international space station so

165

00:06:17,670 --> 00:06:15,199

having that commitment

166

00:06:20,390 --> 00:06:17,680

understanding that nasa has then

167

00:06:22,230 --> 00:06:20,400

chosen the partners to be able to then

168

00:06:24,309 --> 00:06:22,240

go work these crew missions is going to

169

00:06:26,309 --> 00:06:24,319

be critical to them

170

00:06:28,150 --> 00:06:26,319

executing on their timetable to provide

171

00:06:28,950 --> 00:06:28,160

that capability for us

172

00:06:30,550 --> 00:06:28,960

well

173

00:06:33,749 --> 00:06:30,560

obviously we're here in the space

174

00:06:35,430 --> 00:06:33,759

station flight control room and

175

00:06:37,189 --> 00:06:35,440

you're very familiar with this this

176

00:06:40,070 --> 00:06:37,199

place and you know we're flying

177

00:06:41,909 --> 00:06:40,080

astronauts on a on a new spacecraft to

178

00:06:44,469 --> 00:06:41,919

and from the station it's not that far

179

00:06:46,309 --> 00:06:44,479

off if you think in terms of nasa and

180

00:06:48,070 --> 00:06:46,319

and building a brand new type of

181

00:06:50,870 --> 00:06:48,080

spacecraft

182

00:06:53,430 --> 00:06:50,880

within your team do you sense a

183

00:06:55,830 --> 00:06:53,440

growing anticipation and excitement when

184

00:06:56,790 --> 00:06:55,840

we as we move down the road here

185

00:06:58,309 --> 00:06:56,800

you know

186

00:06:59,670 --> 00:06:58,319

when i first i tell the story often

187

00:07:02,629 --> 00:06:59,680

because when i first came over from

188

00:07:05,589 --> 00:07:02,639

cargo we were just finished up

189

00:07:07,350 --> 00:07:05,599

spacex ii and and i kind of

190

00:07:09,110 --> 00:07:07,360

seen all the hardware that was at

191

00:07:10,629 --> 00:07:09,120

wallops and all the hardware at the cape

192

00:07:12,309 --> 00:07:10,639

that was lining up and i was really

193

00:07:14,070 --> 00:07:12,319

looking forward to

194

00:07:16,790 --> 00:07:14,080

the years in front where i was going to

195

00:07:18,870 --> 00:07:16,800

be seeing these cargo missions flying

196

00:07:20,230 --> 00:07:18,880

but as i've noticed over this last year

197

00:07:21,510 --> 00:07:20,240

that i've been working in the commercial

198

00:07:24,390 --> 00:07:21,520

crew program

199

00:07:26,469 --> 00:07:24,400

we have hardware and we have vehicles

200

00:07:29,670 --> 00:07:26,479

and we have launch pads and now it's

201
00:07:31,749 --> 00:07:29,680
about actually pulling those together

202
00:07:34,870 --> 00:07:31,759
and all those pieces together to then go

203
00:07:36,629 --> 00:07:34,880
fly and so i'm positive within a year

204
00:07:39,029 --> 00:07:36,639
year and a half you're going to start

205
00:07:41,350 --> 00:07:39,039
seeing these pieces of these vehicles

206
00:07:43,830 --> 00:07:41,360
start showing up at the cape and

207
00:07:46,230 --> 00:07:43,840
and as our team starts seeing that and

208
00:07:47,670 --> 00:07:46,240
understands what that feels like you'll

209
00:07:50,469 --> 00:07:47,680
you'll start getting that excitement

210
00:07:52,790 --> 00:07:50,479
again there's a lot of folks and and the

211
00:07:54,950 --> 00:07:52,800
program that um came from the shuttle

212
00:07:58,150 --> 00:07:54,960
program and so a little piece of their

213
00:08:01,749 --> 00:07:58,160

heart is is was kind of taken away when

214

00:08:03,430 --> 00:08:01,759

when the shuttle program retired and

215

00:08:06,309 --> 00:08:03,440

but i'm planning on filling that hole

216

00:08:08,629 --> 00:08:06,319

again as we start seeing these missions

217

00:08:11,189 --> 00:08:08,639

um show up and i'm sure when we start

218

00:08:12,790 --> 00:08:11,199

launching our crews again from the

219

00:08:15,270 --> 00:08:12,800

kennedy space center

220

00:08:17,189 --> 00:08:15,280

well i know i know that we're we're all

221

00:08:18,790 --> 00:08:17,199

very excited to see which company or

222

00:08:21,110 --> 00:08:18,800

companies

223

00:08:24,150 --> 00:08:21,120

move forward in developing this brand

224

00:08:25,830 --> 00:08:24,160

new u.s crew transportation so

225

00:08:27,909 --> 00:08:25,840

kathy we really appreciate you stopping

