1
00:01:03,740 --> 00:00:48,270
[Music]

2
00:01:13,590 --> 00:01:03,750
so

3
00:01:38,950 --> 00:01:34,520
[Music]

4
00:01:38,960 --> 00:01:53,950
look

5
00:01:53,960 --> 00:02:06,709
[Music]

6
00:02:06,719 --> 00:02:43,270
full

7
00:02:43,280 --> 00:02:47,860
so

8
00:02:47,870 --> 00:03:12,149
[Music]

9
00:03:12,159 --> 00:03:28,310
foreign

10
00:03:28,320 --> 00:04:24,550
[Music]

11
00:04:24,560 --> 00:04:52,120
this is

12
00:06:32,300 --> 00:05:36,410
[Music]

13
00:06:32,310 --> 00:06:45,990

[Applause]

14
00:06:50,070 --> 00:06:48,070
it's an exciting time at nasa we have

15
00:06:53,350 --> 00:06:50,080
two new commercial crew vehicles in

16
00:06:56,230 --> 00:06:53,360
preparation dragon and cst 100 we had

17
00:06:58,390 --> 00:06:56,240
the sls rocket getting ready to get

18
00:07:00,629 --> 00:06:58,400
ready to launch on e-m1 we have orion

19
00:07:01,589 --> 00:07:00,639
getting ready just a tremendous amount

20
00:07:03,510 --> 00:07:01,599
of work

21
00:07:05,909 --> 00:07:03,520
coming together to really move human

22
00:07:08,070 --> 00:07:05,919
presence into the solar system so we see

23
00:07:10,230 --> 00:07:08,080
space station and space station is that

24
00:07:11,589 --> 00:07:10,240
first step in really getting ready to go

25
00:07:13,110 --> 00:07:11,599
into deep space

26
00:07:14,870 --> 00:07:13,120
we learn what it's like to live in

27
00:07:16,629 --> 00:07:14,880
microgravity for an extended period of

28
00:07:19,350 --> 00:07:16,639
time we've kept our crews on board for

29
00:07:21,909 --> 00:07:19,360
16 plus years just absolutely amazing

30
00:07:24,790 --> 00:07:21,919
testimony to the spirit of the human

31
00:07:26,629 --> 00:07:24,800
race as we do these amazing things when

32
00:07:28,790 --> 00:07:26,639
you look at this rocket it looks simple

33
00:07:32,230 --> 00:07:28,800
it looks easy it's not simple it's not

34
00:07:34,150 --> 00:07:32,240
easy the work the hours the

35
00:07:36,070 --> 00:07:34,160
the amount of time spent getting this

36
00:07:38,550 --> 00:07:36,080
ready for the the two crew about ready

37
00:07:40,150 --> 00:07:38,560
to go fly is just just phenomenal and

38
00:07:42,309 --> 00:07:40,160

it's an amazing time to be here at the

39
00:07:44,790 --> 00:07:42,319
launch pad

40
00:07:46,710 --> 00:07:44,800
dan hartman deputy iss program manager

41
00:07:49,110 --> 00:07:46,720
here in baikonur dan

42
00:07:51,430 --> 00:07:49,120
on yuri gagarin's launch pad of soyuz is

43
00:07:52,469 --> 00:07:51,440
finally here ready to launch in a few

44
00:07:53,749 --> 00:07:52,479
days

45
00:07:55,830 --> 00:07:53,759
tell us a little bit about the

46
00:07:58,390 --> 00:07:55,840
decision-making process in the wake of

47
00:08:00,150 --> 00:07:58,400
the progress accident back in december

48
00:08:02,390 --> 00:08:00,160
that has made everybody comfortable that

49
00:08:04,950 --> 00:08:02,400
you're ready to go sure uh you know

50
00:08:07,189 --> 00:08:04,960
following 65p uh there was anomaly that

51
00:08:09,110 --> 00:08:07,199
we the teams quickly determined was on

52
00:08:11,270 --> 00:08:09,120
the third stage

53
00:08:13,189 --> 00:08:11,280
the ross cosmos formed a commission we

54
00:08:14,629 --> 00:08:13,199
we formed a nasa independent team as

55
00:08:16,309 --> 00:08:14,639
well

56
00:08:19,110 --> 00:08:16,319
looked at all the data that we had and

57
00:08:21,029 --> 00:08:19,120
very quickly determined the third stage

58
00:08:23,430 --> 00:08:21,039
and most likely the turbo pump and so we

59
00:08:25,110 --> 00:08:23,440
tried to understand the scenarios that

60
00:08:26,869 --> 00:08:25,120
led to that

61
00:08:27,670 --> 00:08:26,879
both teams got very comfortable in the

62
00:08:29,350 --> 00:08:27,680
end

63
00:08:31,589 --> 00:08:29,360

with what we should do to the upcoming

64
00:08:33,350 --> 00:08:31,599
engines and how to test those out prior

65
00:08:35,670 --> 00:08:33,360
to being installed for the next flight

66
00:08:38,070 --> 00:08:35,680
of both the progress and the soyuz

67
00:08:39,110 --> 00:08:38,080
we successfully had a 66p

68
00:08:41,269 --> 00:08:39,120
engine

69
00:08:42,949 --> 00:08:41,279
performance on the third stage uh that

70
00:08:45,110 --> 00:08:42,959
went beautifully we renewed all that

71
00:08:46,710 --> 00:08:45,120
data and then we uh

72
00:08:49,670 --> 00:08:46,720
that's the same batch of engines that'll

73
00:08:51,910 --> 00:08:49,680
fly on this soyuz that you see behind us

74
00:08:54,550 --> 00:08:51,920
we had several reviews several exchanges

75
00:08:55,829 --> 00:08:54,560
of data with our russian counterparts we

76
00:08:57,509 --> 00:08:55,839
recently went through our flight

77
00:08:58,790 --> 00:08:57,519
readiness review and we

78
00:09:00,710 --> 00:08:58,800
we got very comfortable with all the

79
00:09:03,110 --> 00:09:00,720
information that both teams actually

80
00:09:04,870 --> 00:09:03,120
presented to us uh the russian side as

81
00:09:06,389 --> 00:09:04,880
well and so we feel very very

82
00:09:08,150 --> 00:09:06,399
comfortable that we've got

83
00:09:09,750 --> 00:09:08,160
a good rocket behind us to go to the

84
00:09:12,070 --> 00:09:09,760
space station

85
00:09:13,990 --> 00:09:12,080
dan uh for a couple of months there will

86
00:09:16,150 --> 00:09:14,000
be five people on station instead of a

87
00:09:17,910 --> 00:09:16,160
typical six

88
00:09:19,430 --> 00:09:17,920

but the good news peggy whitson's

89
00:09:21,350 --> 00:09:19,440
mission extended

90
00:09:23,110 --> 00:09:21,360
she typically does the work of two or

91
00:09:25,430 --> 00:09:23,120
three people on board

92
00:09:27,350 --> 00:09:25,440
how will the time of five people be

93
00:09:28,550 --> 00:09:27,360
managed by the program and the

94
00:09:30,790 --> 00:09:28,560
partnership

95
00:09:32,790 --> 00:09:30,800
and um tell us a little bit about the

96
00:09:35,269 --> 00:09:32,800
value of whitson's extension down the

97
00:09:37,350 --> 00:09:35,279
stretch until september sure and that

98
00:09:39,670 --> 00:09:37,360
was a great recent agreement that we uh

99
00:09:42,470 --> 00:09:39,680
we reached with ross cosmos to

100
00:09:44,310 --> 00:09:42,480
uh instead of peggy returning on 49 s in

101
00:09:46,310 --> 00:09:44,320
early june she'll be returning with this

102
00:09:49,430 --> 00:09:46,320
group the odor and jack

103
00:09:51,030 --> 00:09:49,440
on 50s in september time period you know

104
00:09:52,550 --> 00:09:51,040
with all the you know we had that

105
00:09:54,550 --> 00:09:52,560
two-month gap in between with our

106
00:09:56,870 --> 00:09:54,560
indirect handover in the summer time for

107
00:09:58,470 --> 00:09:56,880
june and july and so this will help us

108
00:10:01,190 --> 00:09:58,480
fill that gap with certainly three crew

109
00:10:05,430 --> 00:10:01,200
at that time eventually back up to five

110
00:10:07,269 --> 00:10:05,440
after that but you know we have a such a

111
00:10:09,590 --> 00:10:07,279
frantic pace going on with research

112
00:10:12,069 --> 00:10:09,600
right now with the oa7 launch coming up

113
00:10:15,430 --> 00:10:12,079

here tomorrow and we'll have a spacex 11

114
00:10:17,350 --> 00:10:15,440
launch uh into may early june uh there

115
00:10:19,269 --> 00:10:17,360
are there's a ton of research on there

116
00:10:21,509 --> 00:10:19,279
that we we need to

117
00:10:23,350 --> 00:10:21,519
be executed by the crew peggy is a

118
00:10:26,470 --> 00:10:23,360
perfect person to do all that we've seen

119
00:10:28,790 --> 00:10:26,480
her in this crew set

120
00:10:30,470 --> 00:10:28,800
records as far as the number of hours

121
00:10:31,990 --> 00:10:30,480
per week and the number of hours per

122
00:10:34,310 --> 00:10:32,000
increment both of those records have

123
00:10:35,509 --> 00:10:34,320
been set recently uh by this crew on

124
00:10:37,829 --> 00:10:35,519
board so

125
00:10:38,630 --> 00:10:37,839
uh with this crew

126
00:10:40,150 --> 00:10:38,640
in

127
00:10:42,069 --> 00:10:40,160
the crew of five time period with the

128
00:10:43,829 --> 00:10:42,079
extension of peggy i'm sure we'll keep

129
00:10:45,190 --> 00:10:43,839
that pace up for research and then

130
00:10:47,190 --> 00:10:45,200
obviously when we're in that indirect

131
00:10:49,509 --> 00:10:47,200
handover period with a crew of three we

132
00:10:51,910 --> 00:10:49,519
have that backup eva capability in case

133
00:10:54,069 --> 00:10:51,920
we get into a contingency scenario where

134
00:10:56,630 --> 00:10:54,079
we need to play that out

135
00:10:59,190 --> 00:10:56,640
chris cassidy nasa's chief astronaut

136
00:11:01,110 --> 00:10:59,200
here in baikonur chris

137
00:11:02,790 --> 00:11:01,120
soyuz rocket behind you ready for

138
00:11:05,110 --> 00:11:02,800

another journey to the international

139
00:11:07,030 --> 00:11:05,120
space station tell us a little bit about

140
00:11:09,590 --> 00:11:07,040
jack fisher's readiness to launch and

141
00:11:10,470 --> 00:11:09,600
how this two-man crew will do the job of

142
00:11:12,310 --> 00:11:10,480
three

143
00:11:13,350 --> 00:11:12,320
well jack's definitely ready i mean he's

144
00:11:17,829 --> 00:11:13,360
been

145
00:11:19,910 --> 00:11:17,839
full-time for for quite quite some time

146
00:11:22,389 --> 00:11:19,920
for this very mission with two with with

147
00:11:23,829 --> 00:11:22,399
two guys and and having spent some time

148
00:11:25,590 --> 00:11:23,839
with them in crew quarters these last

149
00:11:28,069 --> 00:11:25,600
couple days i can tell you they're they

150
00:11:29,590 --> 00:11:28,079
are absolutely ready to go and uh the

151
00:11:31,190 --> 00:11:29,600
training team has been you it's been

152
00:11:32,790 --> 00:11:31,200
some unique challenges with with the

153
00:11:35,190 --> 00:11:32,800
crew of three there's just a few jobs

154
00:11:37,430 --> 00:11:35,200
that that that third crew member is

155
00:11:38,470 --> 00:11:37,440
responsible for but and that they they

156
00:11:40,550 --> 00:11:38,480
know when

157
00:11:41,910 --> 00:11:40,560
uh after the engine is cut off and they

158
00:11:43,910 --> 00:11:41,920
have to come up and kind of divide the

159
00:11:45,509 --> 00:11:43,920
tasks up but they're ready to go and

160
00:11:47,190 --> 00:11:45,519
anxious to get going and it's fun to see

161
00:11:48,630 --> 00:11:47,200
a first time flyer