
Mission Control Center
PAO
NASA

1
00:00:03,909 --> 00:00:02,310
hi everybody josh byerly here inside

2
00:00:05,670 --> 00:00:03,919
mission control i'm joined by courtney

3
00:00:07,590 --> 00:00:05,680
mcmillan the nasa flight dirt who is in

4
00:00:08,549 --> 00:00:07,600
charge not only today but as we've been

5
00:00:10,870 --> 00:00:08,559
talking about during our entire

6
00:00:12,789 --> 00:00:10,880
broadcast she and her team started back

7
00:00:14,470 --> 00:00:12,799
almost three years ago back in 2010

8
00:00:17,269 --> 00:00:14,480
right that's right started doing sims in

9
00:00:18,630 --> 00:00:17,279
2011 so today's been incredibly smooth

10
00:00:19,990 --> 00:00:18,640
let's talk about how i mean it's kind of

11
00:00:21,269 --> 00:00:20,000
shockingly smooth these you know these

12
00:00:23,670 --> 00:00:21,279
are test flights of course you kind of

13
00:00:25,349 --> 00:00:23,680

expect things to pop up but it's been

14
00:00:27,509 --> 00:00:25,359
pretty remarkable today went really

15
00:00:29,189 --> 00:00:27,519
really smoothly it looks like we had

16
00:00:32,069 --> 00:00:29,199
most of our challenges in the previous

17
00:00:33,750 --> 00:00:32,079
week we did have we ran into some

18
00:00:36,389 --> 00:00:33,760
challenges on our first rendezvous

19
00:00:39,030 --> 00:00:36,399
attempt a week ago uh and so most of the

20
00:00:40,869 --> 00:00:39,040
past week has been trying to work uh not

21
00:00:42,950 --> 00:00:40,879
just the challenges we saw that day but

22
00:00:45,110 --> 00:00:42,960
also the challenge the next day

23
00:00:47,350 --> 00:00:45,120
with the with the processor issues that

24
00:00:50,069 --> 00:00:47,360
we were seeing on on cygnus those all

25
00:00:52,869 --> 00:00:50,079
got resolved and so today we showed we

26
00:00:55,029 --> 00:00:52,879
did a gps demonstration early on in the

27
00:00:57,430 --> 00:00:55,039
day just a test to make sure that the

28
00:00:59,430 --> 00:00:57,440
patch that we loaded to fix the problem

29
00:01:01,750 --> 00:00:59,440
that we found on rendezvous day was

30
00:01:04,390 --> 00:01:01,760
going to work and it worked great

31
00:01:06,149 --> 00:01:04,400
that test they passed with flying colors

32
00:01:08,870 --> 00:01:06,159
and so came into the beginning of the

33
00:01:10,390 --> 00:01:08,880
rendezvous shift knowing that that was

34
00:01:12,469 --> 00:01:10,400
going to work

35
00:01:14,230 --> 00:01:12,479
and it did and then the rest of the

36
00:01:16,230 --> 00:01:14,240
objectives for the day went very very

37
00:01:17,910 --> 00:01:16,240
smoothly let's talk we're looking at the

38
00:01:19,350 --> 00:01:17,920

objectives now that these ten were

39
00:01:20,950 --> 00:01:19,360
checked off pretty fast today when

40
00:01:22,870 --> 00:01:20,960
numbers three through ten were all done

41
00:01:24,149 --> 00:01:22,880
pretty rapidly because like we talked

42
00:01:25,590 --> 00:01:24,159
about before you know the actual

43
00:01:27,510 --> 00:01:25,600
birthing in the installation is not part

44
00:01:28,789 --> 00:01:27,520
of the objectives i mean it's obviously

45
00:01:30,550 --> 00:01:28,799
a great to have and we're going to get

46
00:01:32,630 --> 00:01:30,560
there but but the actual full objectives

47
00:01:33,670 --> 00:01:32,640
for cots were done well so there's a

48
00:01:35,190 --> 00:01:33,680
difference between the mission

49
00:01:37,190 --> 00:01:35,200
objectives and those demonstration

50
00:01:39,590 --> 00:01:37,200
objectives the demonstration objectives

51
00:01:40,390 --> 00:01:39,600
are to prove safety in the rendezvous

52
00:01:42,469 --> 00:01:40,400
process

53
00:01:44,389 --> 00:01:42,479
however the the birthing the the actual

54
00:01:45,990 --> 00:01:44,399
capture and the birthing are in fact

55
00:01:48,149 --> 00:01:46,000
objectives in the space act agreement

56
00:01:49,910 --> 00:01:48,159
and for the mission so uh they're not

57
00:01:51,749 --> 00:01:49,920
demonstration objectives in that they're

58
00:01:53,510 --> 00:01:51,759
not providing a separate data package

59
00:01:55,350 --> 00:01:53,520
for those um and they don't have

60
00:01:56,950 --> 00:01:55,360
separate criteria either you either you

61
00:01:58,630 --> 00:01:56,960
captured or you didn't right either you

62
00:02:00,550 --> 00:01:58,640
birth or you don't

63
00:02:02,469 --> 00:02:00,560

but for all the rendezvous objectives

64
00:02:04,310 --> 00:02:02,479
the goal really is to prove the safety

65
00:02:06,389 --> 00:02:04,320
of the vehicle function

66
00:02:07,590 --> 00:02:06,399
and making sure that they're going to do

67
00:02:10,469 --> 00:02:07,600
do the right thing when they're

68
00:02:12,550 --> 00:02:10,479
approaching the station so they they did

69
00:02:14,470 --> 00:02:12,560
perfectly on all those objectives it

70
00:02:17,270 --> 00:02:14,480
went really really smoothly

71
00:02:18,949 --> 00:02:17,280
we had rehearsed that multiple times in

72
00:02:20,550 --> 00:02:18,959
joint simulations over the course

73
00:02:21,990 --> 00:02:20,560
especially in the last year year and a

74
00:02:23,110 --> 00:02:22,000
half

75
00:02:25,030 --> 00:02:23,120
and

76
00:02:26,869 --> 00:02:25,040
they have gotten very good at getting

77
00:02:28,550 --> 00:02:26,879
that data gathered and getting it

78
00:02:30,949 --> 00:02:28,560
packaged up pretty quickly so we can

79
00:02:32,869 --> 00:02:30,959
look at it in a timely manner and they

80
00:02:33,990 --> 00:02:32,879
absolutely nailed it today they did a

81
00:02:35,430 --> 00:02:34,000
great job

82
00:02:38,229 --> 00:02:35,440
talk about the relationship between you

83
00:02:39,910 --> 00:02:38,239
guys and your team here and the orbital

84
00:02:41,589 --> 00:02:39,920
team that's up there in dulles i mean

85
00:02:42,949 --> 00:02:41,599
you've become almost like family over

86
00:02:44,470 --> 00:02:42,959
the last you know year and a half two

87
00:02:46,309 --> 00:02:44,480
years you've practiced these simulations

88
00:02:47,830 --> 00:02:46,319

talk a bit about the dynamics uh you

89
00:02:48,949 --> 00:02:47,840
know leading up to today and also today

90
00:02:50,869 --> 00:02:48,959
as well

91
00:02:53,190 --> 00:02:50,879
the the teams work together really well

92
00:02:56,869 --> 00:02:53,200
so and don't forget we also have uh a

93
00:02:58,149 --> 00:02:56,879
team out at sipsy in scuba japan um that

94
00:03:00,869 --> 00:02:58,159
are also supporting this they're

95
00:03:03,270 --> 00:03:00,879
operating the radios and the and the gps

96
00:03:05,430 --> 00:03:03,280
on board iss that cygnus uses in the

97
00:03:07,910 --> 00:03:05,440
rendezvous process so the three teams

98
00:03:11,190 --> 00:03:07,920
together have have really

99
00:03:13,509 --> 00:03:11,200
become one in many ways um and

100
00:03:15,270 --> 00:03:13,519
i think it's uh you know today a large

101
00:03:17,190 --> 00:03:15,280
part of why we did so well getting

102
00:03:19,030 --> 00:03:17,200
through all the objectives and getting

103
00:03:20,869 --> 00:03:19,040
through a very complicated timeline is

104
00:03:23,110 --> 00:03:20,879
the fact that we had uh been able to

105
00:03:24,470 --> 00:03:23,120
work together as long as we have yeah

106
00:03:25,910 --> 00:03:24,480
yeah there's a there's an orbital team

107
00:03:27,509 --> 00:03:25,920
there there was quite a bit of

108
00:03:28,470 --> 00:03:27,519
celebration once uh seeing this guy

109
00:03:29,990 --> 00:03:28,480
captured

110
00:03:31,830 --> 00:03:30,000
earlier today quite a bit of applause of

111
00:03:33,190 --> 00:03:31,840
course you've got charlie bolden our

112
00:03:36,070 --> 00:03:33,200
administrator there bill gerstenmaier

113
00:03:37,750 --> 00:03:36,080

who's our head of uh human exploration

114
00:03:38,789 --> 00:03:37,760
operations up there as well allen

115
00:03:39,990 --> 00:03:38,799
lindemoy is there we're going to be

116
00:03:41,830 --> 00:03:40,000
hearing from him and frank culverson

117
00:03:42,789 --> 00:03:41,840
later on but um you know it's just i

118
00:03:44,229 --> 00:03:42,799
mean it's just a great day for both

119
00:03:45,990 --> 00:03:44,239
these teams both here in houston and you

120
00:03:47,750 --> 00:03:46,000
and orbital as well well it's really

121
00:03:50,390 --> 00:03:47,760
exciting to see orbital join the human

122
00:03:52,309 --> 00:03:50,400
space flight program at nasa with this

123
00:03:54,869 --> 00:03:52,319
with this vehicle and we're very excited

124
00:03:56,470 --> 00:03:54,879
to have them on station and a part of

125
00:03:57,589 --> 00:03:56,480
our team yeah recording we'll let you go

126
00:03:59,350 --> 00:03:57,599
home get some wrestling it's been kind

127
00:04:00,710 --> 00:03:59,360
of a busy morning busy actually lasts

128
00:04:02,630 --> 00:04:00,720
several weeks for you and your team and

129
00:04:04,949 --> 00:04:02,640
it's uh you know it's just a success all

130
00:04:07,030 --> 00:04:04,959
the way around so far it's been great um

131
00:04:09,030 --> 00:04:07,040
again the the teams have done an amazing

132
00:04:11,270 --> 00:04:09,040
amount of work over the last especially

133
00:04:13,110 --> 00:04:11,280
over the last week since uh since our

134
00:04:15,030 --> 00:04:13,120
first rendezvous attempt

135
00:04:16,629 --> 00:04:15,040
and the five days prior to that after

136
00:04:19,349 --> 00:04:16,639
after cygnus launch it's just been

137
00:04:21,430 --> 00:04:19,359
fantastic to see how professionally and

138
00:04:23,430 --> 00:04:21,440

uh smoothly and steadily everybody has

139
00:04:25,510 --> 00:04:23,440
been willing to work to get through the

140
00:04:26,790 --> 00:04:25,520
challenges that we faced and and we made

141
00:04:28,390 --> 00:04:26,800
it well thanks a lot courtney we'll

142
00:04:30,390 --> 00:04:28,400
stick around and watch installation take

143
00:04:32,710 --> 00:04:30,400
place here shortly so uh thanks again