
PAO
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1
00:00:04,470 --> 00:00:02,310
good morning and welcome to mission

2
00:00:06,710 --> 00:00:04,480
control houston we have with us here

3
00:00:08,230 --> 00:00:06,720
today on console kenny todd who is the

4
00:00:10,230 --> 00:00:08,240
space station mission operations

5
00:00:11,990 --> 00:00:10,240
integration manager um and he's going to

6
00:00:13,669 --> 00:00:12,000
tell us a little bit more about the

7
00:00:15,430 --> 00:00:13,679
rendezvous that didn't happen last night

8
00:00:17,750 --> 00:00:15,440
and is now scheduled for tomorrow thanks

9
00:00:19,510 --> 00:00:17,760
so much for joining us kenny my pleasure

10
00:00:21,269 --> 00:00:19,520
all right so i guess can we start by

11
00:00:23,109 --> 00:00:21,279
talking about last night what happened

12
00:00:25,189 --> 00:00:23,119
to delay the rendezvous

13
00:00:27,349 --> 00:00:25,199

sure um the uh

14
00:00:29,189 --> 00:00:27,359
the soyuz wanted when it

15
00:00:30,790 --> 00:00:29,199
after it reaches ascend it goes through

16
00:00:31,830 --> 00:00:30,800
a series of burns that it takes to

17
00:00:33,990 --> 00:00:31,840
actually

18
00:00:36,470 --> 00:00:34,000
get to the station the first two burns

19
00:00:38,229 --> 00:00:36,480
were performed nominally

20
00:00:41,830 --> 00:00:38,239
at the at the point it was supposed to

21
00:00:43,110 --> 00:00:41,840
be doing what we call db3 the third burn

22
00:00:45,990 --> 00:00:43,120
the

23
00:00:47,430 --> 00:00:46,000
vehicle did not execute that burn

24
00:00:48,950 --> 00:00:47,440
based on what we're hearing from our

25
00:00:51,110 --> 00:00:48,960
russian colleagues it looks like that

26
00:00:53,029 --> 00:00:51,120
burn did not execute because they

27
00:00:55,430 --> 00:00:53,039
weren't able uh through their normal

28
00:00:57,830 --> 00:00:55,440
systems checks to to confirm the the

29
00:01:00,869 --> 00:00:57,840
attitude of the vehicle was was at its

30
00:01:02,869 --> 00:01:00,879
proper uh condition and so

31
00:01:04,869 --> 00:01:02,879
not being able to confirm that then the

32
00:01:07,350 --> 00:01:04,879
basically the burn did not automatically

33
00:01:08,149 --> 00:01:07,360
execute okay but i think we've since

34
00:01:09,830 --> 00:01:08,159
then

35
00:01:11,350 --> 00:01:09,840
executed a couple of different burns

36
00:01:13,350 --> 00:01:11,360
that give us some confidence that

37
00:01:15,670 --> 00:01:13,360
everything's working okay at least

38
00:01:17,030 --> 00:01:15,680

yeah once uh once it was determined that

39
00:01:19,670 --> 00:01:17,040
we weren't going to going to be able to

40
00:01:21,749 --> 00:01:19,680
meet the the four orbit plan we

41
00:01:24,149 --> 00:01:21,759
downloaded to to what we call the 34

42
00:01:27,429 --> 00:01:24,159
orbit rendezvous at that point that that

43
00:01:29,350 --> 00:01:27,439
kicks off a a series of of uh additional

44
00:01:31,990 --> 00:01:29,360
burns that have to be done

45
00:01:33,109 --> 00:01:32,000
to start targeting station for for uh

46
00:01:35,749 --> 00:01:33,119
rendezvous

47
00:01:37,350 --> 00:01:35,759
and within 34 orbits and and the first

48
00:01:39,109 --> 00:01:37,360
couple of burns for for that particular

49
00:01:41,030 --> 00:01:39,119
plant have been done they've been done

50
00:01:43,030 --> 00:01:41,040
successfully and and

51
00:01:44,630 --> 00:01:43,040
got good confirmation okay so we don't

52
00:01:45,910 --> 00:01:44,640
expect a problem with getting the crew

53
00:01:48,389 --> 00:01:45,920
to the station they should be there

54
00:01:50,870 --> 00:01:48,399
tomorrow evening i think at this point

55
00:01:52,310 --> 00:01:50,880
the crew is in good shape the vehicle

56
00:01:53,830 --> 00:01:52,320
appears to be in good shape computers

57
00:01:55,830 --> 00:01:53,840
are in good shape the propulsion system

58
00:01:57,510 --> 00:01:55,840
is working based on these burns and so

59
00:01:59,590 --> 00:01:57,520
at this point everything everything

60
00:02:00,870 --> 00:01:59,600
looks real good okay well um can you

61
00:02:03,429 --> 00:02:00,880
tell us a little bit about how you know

62
00:02:05,109 --> 00:02:03,439
i guess this is not that um unusual for

63
00:02:06,950 --> 00:02:05,119

us we've certainly done many of these

64
00:02:09,350 --> 00:02:06,960
two-day rendezvous before it's actually

65
00:02:10,229 --> 00:02:09,360
the the uh one day rendezvous that's a

66
00:02:15,430 --> 00:02:10,239
little

67
00:02:17,510 --> 00:02:15,440
uh you know up to last year you know

68
00:02:21,190 --> 00:02:17,520
prior to that for the 14 years we flew

69
00:02:23,190 --> 00:02:21,200
soyuz uh to and from station uh the

70
00:02:24,949 --> 00:02:23,200
it was all done as part of a 34 orbit

71
00:02:27,589 --> 00:02:24,959
case so we're comfortable with this we

72
00:02:29,589 --> 00:02:27,599
know how to do it um for every

73
00:02:31,430 --> 00:02:29,599
readiness review that we get ready to

74
00:02:32,790 --> 00:02:31,440
when we get ready to launch a soyuz we

75
00:02:35,030 --> 00:02:32,800
we actually do

76
00:02:37,830 --> 00:02:35,040
do the certification and the readiness

77
00:02:39,270 --> 00:02:37,840
to support this 34 orbit case and so

78
00:02:41,670 --> 00:02:39,280
we didn't have to go build new products

79
00:02:43,509 --> 00:02:41,680
we didn't have to go and do a lot of new

80
00:02:45,350 --> 00:02:43,519
analysis we were ready to support this

81
00:02:46,869 --> 00:02:45,360
that's basically the standard operating

82
00:02:48,229 --> 00:02:46,879
procedure to always have a backup plan

83
00:02:51,190 --> 00:02:48,239
right exactly

84
00:02:53,589 --> 00:02:51,200
all right well is there anything special

85
00:02:55,030 --> 00:02:53,599
that the crew will be doing on orbit um

86
00:02:56,309 --> 00:02:55,040
to get ready for this rendezvous as

87
00:02:57,509 --> 00:02:56,319
opposed to what they would have done

88
00:02:59,030 --> 00:02:57,519

yesterday

89
00:03:01,430 --> 00:02:59,040
no we went through a series of

90
00:03:03,430 --> 00:03:01,440
replanting activities mostly the crew

91
00:03:05,350 --> 00:03:03,440
was supposed to have today off

92
00:03:07,750 --> 00:03:05,360
as a result of being up late last night

93
00:03:09,430 --> 00:03:07,760
and welcoming a new crew and and and

94
00:03:10,790 --> 00:03:09,440
everything that comes with getting a new

95
00:03:12,630 --> 00:03:10,800
crew on board

96
00:03:13,509 --> 00:03:12,640
given that that that's going to slide

97
00:03:17,110 --> 00:03:13,519
now

98
00:03:19,350 --> 00:03:17,120
and give them an extra day

99
00:03:21,430 --> 00:03:19,360
we did replan the day today

100
00:03:22,710 --> 00:03:21,440
we had a pretty major software

101
00:03:25,750 --> 00:03:22,720
transition that we were going to kick

102
00:03:27,830 --> 00:03:25,760
off tonight or last night after after

103
00:03:29,990 --> 00:03:27,840
the docking and so we've we've elected

104
00:03:31,990 --> 00:03:30,000
to move that downstream a little further

105
00:03:33,910 --> 00:03:32,000
to again allow the stocking to take

106
00:03:36,550 --> 00:03:33,920
place but but the crew will be working

107
00:03:39,190 --> 00:03:36,560
today okay and i know there was also uh

108
00:03:41,589 --> 00:03:39,200
this the spacex launch scheduled coming

109
00:03:43,509 --> 00:03:41,599
up is that still going to happen on time

110
00:03:45,350 --> 00:03:43,519
or will this affect that as well

111
00:03:47,750 --> 00:03:45,360
this particular

112
00:03:49,990 --> 00:03:47,760
uh issue with the soyuz and and swapping

113
00:03:52,309 --> 00:03:50,000

from a four bit to a 34 but rendezvous

114
00:03:53,990 --> 00:03:52,319
will have no no impact on on the launch

115
00:03:56,309 --> 00:03:54,000
of spacex we're still

116
00:03:58,630 --> 00:03:56,319
at this point planning to launch or some

117
00:04:00,789 --> 00:03:58,640
support to their launch on sunday night

118
00:04:02,949 --> 00:04:00,799
houston time with the birthing on

119
00:04:05,270 --> 00:04:02,959
tuesday morning and so uh yeah this

120
00:04:07,030 --> 00:04:05,280
particular event has no impact on that

121
00:04:08,550 --> 00:04:07,040
okay well thanks so much i think that's

122
00:04:10,630 --> 00:04:08,560
probably what we were we're hoping to

123
00:04:12,550 --> 00:04:10,640
hear from you it's my pleasure thanks

124
00:04:13,990 --> 00:04:12,560
again this was kenny todd the

125
00:04:15,670 --> 00:04:14,000
space station mission operations

126
00:04:16,949 --> 00:04:15,680
integration manager and we're going to