



1
00:00:09,360 --> 00:00:17,510
room for one more

2
00:00:20,470 --> 00:00:19,349
all right so tell me where we are mike

3
00:00:22,070 --> 00:00:20,480
well we're in the

4
00:00:23,910 --> 00:00:22,080
fireman ford launch control center it's

5
00:00:25,670 --> 00:00:23,920
where we launch all the shuttles out of

6
00:00:27,750 --> 00:00:25,680
right in this room in this room this is

7
00:00:28,790 --> 00:00:27,760
the place this is my console here the

8
00:00:30,150 --> 00:00:28,800
launch director's connection launch

9
00:00:31,750 --> 00:00:30,160
director there's ray j holding up your

10
00:00:32,950 --> 00:00:31,760
sign there launch right here this is

11
00:00:34,470 --> 00:00:32,960
where you said it worked with all you

12
00:00:36,150 --> 00:00:34,480
guys when i talked to you guys it's from

13
00:00:37,430 --> 00:00:36,160

this console here you talking on the

14

00:00:39,590 --> 00:00:37,440

phone well you got you got a little

15

00:00:40,709 --> 00:00:39,600

headset no you got your headset on okay

16

00:00:42,150 --> 00:00:40,719

okay

17

00:00:43,830 --> 00:00:42,160

all right um

18

00:00:46,069 --> 00:00:43,840

got the test test director the test

19

00:00:47,830 --> 00:00:46,079

conductors down here all right and then

20

00:00:48,950 --> 00:00:47,840

all the system engineers out on the

21

00:00:50,869 --> 00:00:48,960

floor of the firing room all the name

22

00:00:52,470 --> 00:00:50,879

propulsion guys and fuel cell guys all

23

00:00:53,830 --> 00:00:52,480

the system engineers are out on the

24

00:00:55,029 --> 00:00:53,840

floor okay

25

00:00:57,430 --> 00:00:55,039

and they all we can see it through a

26

00:00:58,869 --> 00:00:57,440

test conductor to a test director yeah

27

00:00:59,910 --> 00:00:58,879

ultimately

28

00:01:01,670 --> 00:00:59,920

all right

29

00:01:03,029 --> 00:01:01,680

okay and then this bubble over here room

30

00:01:04,950 --> 00:01:03,039

on the left that's mission management

31

00:01:08,149 --> 00:01:04,960

team bubble

32

00:01:10,070 --> 00:01:08,159

mike moses now nowadays and his team

33

00:01:11,990 --> 00:01:10,080

and then the bubble over here is a vip

34

00:01:13,510 --> 00:01:12,000

area for our administrator and center

35

00:01:16,310 --> 00:01:13,520

directors and

36

00:01:18,070 --> 00:01:16,320

ron o'connor head of safety and uh vips

37

00:01:19,030 --> 00:01:18,080

essentially sitting there on one side

38

00:01:21,350 --> 00:01:19,040

okay

39

00:01:22,870 --> 00:01:21,360
and the launch pad is out there

40

00:01:25,270 --> 00:01:22,880
let's see if i can get it i'm having

41

00:01:27,190 --> 00:01:25,280
trouble focusing on that

42

00:01:29,429 --> 00:01:27,200
all right there it is okay all right

43

00:01:30,789 --> 00:01:29,439
i've got two questions for you mike

44

00:01:32,149 --> 00:01:30,799
one is is that i notice when you're

45

00:01:33,990 --> 00:01:32,159
sitting there your chair is this way and

46

00:01:35,350 --> 00:01:34,000
all your displays are over here facing

47

00:01:37,670 --> 00:01:35,360
this way with a room

48

00:01:40,630 --> 00:01:37,680
but the spaceship is out there

49

00:01:42,469 --> 00:01:40,640
the opposite direction what's the story

50

00:01:43,910 --> 00:01:42,479
shouldn't you be looking out there as a

51
00:01:45,590 --> 00:01:43,920
video do you flip around that you like

52
00:01:47,030 --> 00:01:45,600
make the call and then get out there you

53
00:01:48,710 --> 00:01:47,040
don't want the guys to be distracted

54
00:01:50,950 --> 00:01:48,720
what's the story when you guys lift off

55
00:01:53,190 --> 00:01:50,960
i watch you go right yeah i want to

56
00:01:55,109 --> 00:01:53,200
watch the launch so you do turn around

57
00:01:56,389 --> 00:01:55,119
over here i'm watching my displays but

58
00:01:57,830 --> 00:01:56,399
you don't want anyone else to look is

59
00:01:59,190 --> 00:01:57,840
that what this do you want them to know

60
00:02:00,389 --> 00:01:59,200
is there a reason for that because you

61
00:02:01,510 --> 00:02:00,399
want to looking at their displays you

62
00:02:03,030 --> 00:02:01,520
know when i'm looking at the big

63
00:02:04,870 --> 00:02:03,040

fireworks going on over here all right

64

00:02:06,950 --> 00:02:04,880

all right i'm concentrating on that

65

00:02:08,710 --> 00:02:06,960

on the display okay

66

00:02:10,550 --> 00:02:08,720

and then uh no the last the last five

67

00:02:11,910 --> 00:02:10,560

minutes last nine minutes of counter so

68

00:02:13,589 --> 00:02:11,920

i'm watching my displays watching the

69

00:02:15,750 --> 00:02:13,599

various okay you know parameters on

70

00:02:17,510 --> 00:02:15,760

board the shuttle company

71

00:02:19,510 --> 00:02:17,520

start up and all that stuff

72

00:02:21,110 --> 00:02:19,520

pressurization of the tanks okay then it

73

00:02:23,030 --> 00:02:21,120

lifts off now i'm very much watching the

74

00:02:24,949 --> 00:02:23,040

watching the show and the whole room is

75

00:02:26,229 --> 00:02:24,959

as well or they they turn it once it

76
00:02:27,750 --> 00:02:26,239
clears the tower or something that they

77
00:02:29,510 --> 00:02:27,760
turn around and look it's very quiet in

78
00:02:31,509 --> 00:02:29,520
here we don't celebrate until you guys

79
00:02:33,670 --> 00:02:31,519
reach orbit right um

80
00:02:35,350 --> 00:02:33,680
they're watching their displays

81
00:02:36,710 --> 00:02:35,360
first four and a half minutes in case we

82
00:02:38,630 --> 00:02:36,720
got an rtls

83
00:02:41,270 --> 00:02:38,640
i see but after rtls then essentially

84
00:02:42,550 --> 00:02:41,280
our job is done completely done and

85
00:02:44,790 --> 00:02:42,560
we're just watching watching the

86
00:02:46,630 --> 00:02:44,800
ascendant uh we're watching the down

87
00:02:47,910 --> 00:02:46,640
link and getting all the data all right

88
00:02:50,309 --> 00:02:47,920

we're watching the guys in houston take

89

00:02:51,430 --> 00:02:50,319

care of the ship

90

00:02:52,309 --> 00:02:51,440

launch site because it may be coming

91

00:02:53,509 --> 00:02:52,319

back here

92

00:02:54,710 --> 00:02:53,519

once it clears the tower houston

93

00:02:55,750 --> 00:02:54,720

controls but you still got to be ready

94

00:02:57,589 --> 00:02:55,760

for it to come back here they're

95

00:02:59,750 --> 00:02:57,599

controlling in houston no question about

96

00:03:01,830 --> 00:02:59,760

that but if we do get an rtls well then

97

00:03:03,190 --> 00:03:01,840

you know our guys are of the slf kick

98

00:03:04,790 --> 00:03:03,200

into action ready to go and you guys

99

00:03:07,110 --> 00:03:04,800

will have working we're still supporting

100

00:03:09,990 --> 00:03:07,120

jsc at that at that point okay that's

101
00:03:11,990 --> 00:03:10,000
still one of the flight regimes okay

102
00:03:12,869 --> 00:03:12,000
interesting and my last question for you

103
00:03:14,149 --> 00:03:12,879
mike

104
00:03:16,149 --> 00:03:14,159
where's the big red button that you

105
00:03:17,830 --> 00:03:16,159
since you're the launch director you get

106
00:03:19,830 --> 00:03:17,840
to hit the button right is there there

107
00:03:21,509 --> 00:03:19,840
is no big red button is there you have a

108
00:03:23,190 --> 00:03:21,519
small red but i saw this one here and i

109
00:03:25,830 --> 00:03:23,200
thought well maybe this is it no that's

110
00:03:27,430 --> 00:03:25,840
not it but come on man that ain't it

111
00:03:29,589 --> 00:03:27,440
it's all but you know for the people

112
00:03:31,830 --> 00:03:29,599
watching it's all computer control

113
00:03:34,309 --> 00:03:31,840

computer control but uh everyone every

114

00:03:36,149 --> 00:03:34,319

one of the engineers in the room and

115

00:03:37,350 --> 00:03:36,159

test conductors and test director myself

116

00:03:39,190 --> 00:03:37,360

we can we can stop the launch all the

117

00:03:40,789 --> 00:03:39,200

way down to if we had to

118

00:03:42,470 --> 00:03:40,799

with a manual call we always have that

119

00:03:44,470 --> 00:03:42,480

capability for the human intervention if

120

00:03:45,990 --> 00:03:44,480

we need it yeah

121

00:03:48,149 --> 00:03:46,000

hasn't happened hope it doesn't happen

122

00:03:50,309 --> 00:03:48,159

but the theory is you know the

123

00:03:52,149 --> 00:03:50,319

ground law sequencer here is mimicking

124

00:03:53,830 --> 00:03:52,159

the redundant set on board the order as

125

00:03:55,589 --> 00:03:53,840

long as they to stay in sync we haven't

126

00:03:57,990 --> 00:03:55,599

violated any lcc's

127

00:03:59,509 --> 00:03:58,000

you guys are gone

128

00:04:00,869 --> 00:03:59,519

and this is a pretty cool job you love

129

00:04:02,949 --> 00:04:00,879

it i know we talked about this before

130

00:04:04,550 --> 00:04:02,959

how much you love what you do did you

131

00:04:05,750 --> 00:04:04,560

did you did you think you'd be doing

132

00:04:08,229 --> 00:04:05,760

this when you were a little kid did you

133

00:04:09,589 --> 00:04:08,239

play like what no no you know

134

00:04:12,149 --> 00:04:09,599

charlie over there did you play like

135

00:04:14,550 --> 00:04:12,159

play with uh a little the model rockets

136

00:04:15,910 --> 00:04:14,560

when you were kids or anything did you

137

00:04:17,270 --> 00:04:15,920

was there anything no no i was a

138

00:04:18,789 --> 00:04:17,280

virginia boy you know and just got

139

00:04:20,229 --> 00:04:18,799

really really lucky in my career and

140

00:04:22,390 --> 00:04:20,239

always been interested in space and

141

00:04:24,310 --> 00:04:22,400

space travel yeah and uh no i just got

142

00:04:25,830 --> 00:04:24,320

really really lucky yeah it's as simple

143

00:04:27,909 --> 00:04:25,840

as that well we've talked about this

144

00:04:29,350 --> 00:04:27,919

before too and how as astronauts we're

145

00:04:30,790 --> 00:04:29,360

very grateful we have

146

00:04:31,909 --> 00:04:30,800

you folks here looking out for us and

147

00:04:33,030 --> 00:04:31,919

making sure that it is the right

148

00:04:35,430 --> 00:04:33,040

decision

149

00:04:37,189 --> 00:04:35,440

to go and uh i know it's very serious we

150

00:04:39,430 --> 00:04:37,199

have fun but we're taking a very serious

151

00:04:41,510 --> 00:04:39,440

job i mean it's a fun job but but

152

00:04:43,270 --> 00:04:41,520

there's a lot of responsibility you guys

153

00:04:45,030 --> 00:04:43,280

aren't going to fly unless we're 100

154

00:04:46,469 --> 00:04:45,040

convinced it's created to go the only

155

00:04:47,990 --> 00:04:46,479

thing you might need for visibility is

156

00:04:50,230 --> 00:04:48,000

to clean up some of the bird poop that

157

00:04:51,909 --> 00:04:50,240

you have on the window here that's a

158

00:04:53,189 --> 00:04:51,919

that's one of our preps for long is that

159

00:04:54,550 --> 00:04:53,199

what that's right

160

00:04:56,150 --> 00:04:54,560

you got to get a guy to clean probably

161

00:04:57,830 --> 00:04:56,160

want to wait until right before launch

162

00:05:00,150 --> 00:04:57,840

launch mine is one of these birds you

163

00:05:01,350 --> 00:05:00,160

know they dig yeah they'll yeah all

164

00:05:02,550 --> 00:05:01,360

right

165

00:05:04,070 --> 00:05:02,560

well thanks for letting us in here mike