



1
00:00:25,249 --> 00:00:22,760
status check to proceed with terminal

2
00:00:28,640 --> 00:00:25,259
count Atlas systems propulsion go

3
00:00:31,849 --> 00:00:28,650
hydraulics go go Maddox go tell it to go

4
00:00:35,570 --> 00:00:31,859
water go centaur systems propulsion go

5
00:00:38,509 --> 00:00:35,580
pneumatics go hello - LH to go as camp

6
00:00:42,400 --> 00:00:38,519
now back to go system airborne go round

7
00:00:45,500 --> 00:00:42,410
go facility are FFTs go flight control

8
00:00:48,770 --> 00:00:45,510
instrumentation no calm go you seek you

9
00:00:52,399 --> 00:00:48,780
go pellicle go easy yes good night

10
00:00:54,710 --> 00:00:52,409
mother go quality go osm ill a safety

11
00:00:55,070 --> 00:00:54,720
officer go range weather and clear to

12
00:01:00,049 --> 00:00:55,080
proceed

13
00:01:01,789 --> 00:01:00,059

no you work for years some of us have

14

00:01:03,649 --> 00:01:01,799

worked for five six years to get to this

15

00:01:06,050 --> 00:01:03,659

point and it always seemed like it was

16

00:01:07,940 --> 00:01:06,060

so far away so far away it was never

17

00:01:10,609 --> 00:01:07,950

really going to come and what's amazing

18

00:01:12,649 --> 00:01:10,619

when we came down here in June it still

19

00:01:15,320 --> 00:01:12,659

seemed like it was a long way away July

20

00:01:17,570 --> 00:01:15,330

August September comes and goes and now

21

00:01:21,590 --> 00:01:17,580

you realize wow the number of weeks are

22

00:01:23,330 --> 00:01:21,600

you can count on one hand see I've had

23

00:01:25,730 --> 00:01:23,340

the privilege of working with the Mars

24

00:01:28,160 --> 00:01:25,740

Science Laboratory mission for the past

25

00:01:29,660 --> 00:01:28,170

three years and I will there say it's

26

00:01:31,039 --> 00:01:29,670

probably one of the coolest missions

27

00:01:33,139 --> 00:01:31,049

that I've worked on

28

00:01:36,080 --> 00:01:33,149

not just because of the science

29

00:01:38,480 --> 00:01:36,090

objectives but the scale of the rover

30

00:01:40,819 --> 00:01:38,490

itself the challenges that the team has

31

00:01:42,730 --> 00:01:40,829

gone through to try to meet the science

32

00:01:45,109 --> 00:01:42,740

objectives to make sure that the

33

00:01:46,880 --> 00:01:45,119

payloads and the instruments operate as

34

00:01:49,580 --> 00:01:46,890

they should the launch vehicle that

35

00:01:53,080 --> 00:01:49,590

we're using the Atlas 5 541 this is the

36

00:01:57,559 --> 00:01:53,090

first flight of a 541 launch vehicle

37

00:01:59,929 --> 00:01:57,569

what we do is we roll out the rocket

38

00:02:02,359 --> 00:01:59,939

from the vertical integration facility

39

00:02:04,819 --> 00:02:02,369

out to the launch pad we use what's

40

00:02:08,719 --> 00:02:04,829

called a clean launch pad approach and

41

00:02:11,210 --> 00:02:08,729

we do that two days before the launch at

42

00:02:14,870 --> 00:02:11,220

that point we connect the rocket and the

43

00:02:17,380 --> 00:02:14,880

mobile launch platform to the to the

44

00:02:20,479 --> 00:02:17,390

launch pad and that's how we're able to

45

00:02:23,030 --> 00:02:20,489

load our liquid oxygen and liquid

46

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

hydrogen on board and actually made up

47

00:02:27,220 --> 00:02:24,959

the electrical connectors that have to

48

00:02:30,440 --> 00:02:27,230

power up the rocket and the spacecraft

49

00:02:32,509 --> 00:02:30,450

while it's at the pad certainly we're

50

00:02:35,780 --> 00:02:32,519

confident in our systems now but we keep

51
00:02:38,509 --> 00:02:35,790
checking them we we have continuous in a

52
00:02:41,229 --> 00:02:38,519
series of predefined tests that we do to

53
00:02:43,520 --> 00:02:41,239
make sure that the launch vehicle is is

54
00:02:47,620 --> 00:02:43,530
communicating correctly with with the

55
00:02:50,090 --> 00:02:47,630
spacecraft there's a million operating

56
00:02:52,340 --> 00:02:50,100
components there and they all need to

57
00:02:55,729 --> 00:02:52,350
work all simultaneously you don't want

58
00:02:58,099 --> 00:02:55,739
any glitches when you get down to just a

59
00:03:00,589 --> 00:02:58,109
week before launch the planets align

60
00:03:02,690 --> 00:03:00,599
only every two years and you only get

61
00:03:06,170 --> 00:03:02,700
about a three week window so if you're

62
00:03:07,849 --> 00:03:06,180
not ready to launch the planets move out

63
00:03:10,460 --> 00:03:07,859

of alignment and you're waiting another

64

00:03:11,870 --> 00:03:10,470

two years so it's very critical that we

65

00:03:14,780 --> 00:03:11,880

don't have anything that would delay our

66

00:03:17,610 --> 00:03:14,790

schedule and make us miss the launch

67

00:03:19,560 --> 00:03:17,620

launched a weather doesn't look too bad

68

00:03:20,880 --> 00:03:19,570

there is a front that's pushing through

69

00:03:22,410 --> 00:03:20,890

it looks like Wednesday night

70

00:03:23,970 --> 00:03:22,420

Thanksgiving Day should we push the

71

00:03:25,920 --> 00:03:23,980

south of us or at least South to Central

72

00:03:27,570 --> 00:03:25,930

Florida bit breezy for roll in Friday

73

00:03:29,010 --> 00:03:27,580

but we should have should have decent

74

00:03:30,660 --> 00:03:29,020

weather may be a threat of an isolated

75

00:03:33,120 --> 00:03:30,670

shower coming in with a brisk onshore

76

00:03:34,890 --> 00:03:33,130

flow and that looks similar to Saturday

77

00:03:36,510 --> 00:03:34,900

it looks like the winds decrease just a

78

00:03:39,270 --> 00:03:36,520

little bit on Saturday but anytime we're

79

00:03:40,920 --> 00:03:39,280

that breezy with easterly flow would

80

00:03:42,780 --> 00:03:40,930

expect to see some kind of clouds coming

81

00:03:44,190 --> 00:03:42,790

in from the Atlantic with the threat of

82

00:03:49,610 --> 00:03:44,200

an isolated shower so that's the

83

00:03:54,600 --> 00:03:53,280

LLC this is the LD on channel 1 I see

84

00:03:58,230 --> 00:03:54,610

you have permission to launch

85

00:04:36,980 --> 00:03:58,240

Roger sitting with account do you - ten

86

00:04:40,830 --> 00:04:39,600

am i confident that she's gonna go and

87

00:04:43,860 --> 00:04:40,840

she's going to be successful