1
00:00:03,990 --> 00:00:02,389
i am here at the kennedy space center

2
00:00:06,230 --> 00:00:04,000
and we are actually in one of the labs

3
00:00:07,829 --> 00:00:06,240
where they are processing the payloads

4
00:00:10,390 --> 00:00:07,839
and getting them ready to go into the

5
00:00:12,310 --> 00:00:10,400
space x4 dragon capsule joining me now

6
00:00:14,549 --> 00:00:12,320
is jennifer wahlberg and she is an

7
00:00:17,430 --> 00:00:14,559
integration engineer here at the kennedy

8
00:00:18,710 --> 00:00:17,440
space center and jennifer um

9
00:00:20,710 --> 00:00:18,720
probably got a lot of time on your hands

10
00:00:22,710 --> 00:00:20,720
right now right this is a real exciting

11
00:00:24,870 --> 00:00:22,720
week for us so the week before launch is

12
00:00:26,310 --> 00:00:24,880
always really really busy for us

13
00:00:28,150 --> 00:00:26,320

what are you doing here what do you do

14
00:00:29,910 --> 00:00:28,160
to get these payloads ready i'm part of

15
00:00:31,750 --> 00:00:29,920
a team of people that enables the

16
00:00:33,270 --> 00:00:31,760
science teams to do the last minute

17
00:00:34,549 --> 00:00:33,280
preparations for their science you know

18
00:00:36,709 --> 00:00:34,559
a lot of the science that goes to

19
00:00:38,069 --> 00:00:36,719
station can't be pre-prepared elsewhere

20
00:00:39,510 --> 00:00:38,079
and then shipped in

21
00:00:41,270 --> 00:00:39,520
so we have the facilities and

22
00:00:43,030 --> 00:00:41,280
accommodations here

23
00:00:44,950 --> 00:00:43,040
to assign different labs to different

24
00:00:47,750 --> 00:00:44,960
teams they can do the last minute

25
00:00:49,270 --> 00:00:47,760
science preparations or packing some

26
00:00:50,869 --> 00:00:49,280
things don't come together until right

27
00:00:52,389 --> 00:00:50,879
here at the facility and get packed at

28
00:00:53,670 --> 00:00:52,399
the last minute before we take it out to

29
00:00:55,350 --> 00:00:53,680
the vehicle

30
00:00:57,830 --> 00:00:55,360
and that is your job to get it ready to

31
00:00:59,349 --> 00:00:57,840
get out to the vehicle and and you have

32
00:01:01,270 --> 00:00:59,359
to have a lot of different equipment for

33
00:01:03,670 --> 00:01:01,280
that too right yeah i coordinate with a

34
00:01:05,350 --> 00:01:03,680
lot of folks um working with teams that

35
00:01:07,990 --> 00:01:05,360
are visiting here from payloads all over

36
00:01:09,109 --> 00:01:08,000
the country and the world actually from

37
00:01:11,670 --> 00:01:09,119
jsc

38
00:01:13,350 --> 00:01:11,680

from marshall and elsewhere

39
00:01:14,870 --> 00:01:13,360
and really it's

40
00:01:17,590 --> 00:01:14,880
getting everybody where they need to be

41
00:01:19,510 --> 00:01:17,600
at the right point in time

42
00:01:22,630 --> 00:01:19,520
some of the payloads have to maintain

43
00:01:23,990 --> 00:01:22,640
power during transport we have equipment

44
00:01:26,149 --> 00:01:24,000
powered

45
00:01:28,310 --> 00:01:26,159
that will maintain power and batteries

46
00:01:31,510 --> 00:01:28,320
for that we have other equipment that

47
00:01:33,109 --> 00:01:31,520
will maintain lockers in the correct

48
00:01:34,870 --> 00:01:33,119
orientation while they're still in

49
00:01:36,469 --> 00:01:34,880
gravity and you have these things left

50
00:01:38,469 --> 00:01:36,479
over it's a rich history you did this

51
00:01:41,350 --> 00:01:38,479
during the shuttle days too right yeah

52
00:01:43,350 --> 00:01:41,360
we would go out for late load at

53
00:01:46,069 --> 00:01:43,360
shuttles and would be there on the

54
00:01:50,149 --> 00:01:46,079
runway when it came back to early still

55
00:01:51,990 --> 00:01:50,159
wow so now with spacex four you guys

56
00:01:54,389 --> 00:01:52,000
take it all out to the pad and then and

57
00:01:56,069 --> 00:01:54,399
then your day is done right

58
00:01:57,830 --> 00:01:56,079
it's a long day

59
00:02:00,550 --> 00:01:57,840
a lot of these signs payloads get loaded

60
00:02:02,469 --> 00:02:00,560
at l minus 24 hours we actually start

61
00:02:04,149 --> 00:02:02,479
here gathering things up three to four

62
00:02:05,749 --> 00:02:04,159
hours before that

63
00:02:08,309 --> 00:02:05,759

going around to the different labs and

64
00:02:09,589 --> 00:02:08,319
doing final packing preparations loading

65
00:02:11,750 --> 00:02:09,599
our vehicle

66
00:02:13,910 --> 00:02:11,760
it's a 20 minute drive or so over to the

67
00:02:16,309 --> 00:02:13,920
spacex facility

68
00:02:17,830 --> 00:02:16,319
there's a team of people small team

69
00:02:20,390 --> 00:02:17,840
there's only about half a dozen of us

70
00:02:23,030 --> 00:02:20,400
here plus a handful of folks that travel

71
00:02:25,589 --> 00:02:23,040
with us from other centers

72
00:02:28,150 --> 00:02:25,599
and we get out to the launch pad where

73
00:02:30,070 --> 00:02:28,160
spacex meets us and we hand things over

74
00:02:32,309 --> 00:02:30,080
to them and then they do installation in

75
00:02:34,150 --> 00:02:32,319
the vehicle we stay throughout

76
00:02:37,270 --> 00:02:34,160
installation making sure everything goes

77
00:02:39,990 --> 00:02:37,280
goes fine and gets loaded correctly

78
00:02:41,589 --> 00:02:40,000
we assist in the battery or the power

79
00:02:42,630 --> 00:02:41,599
transfer from battery to the vehicle

80
00:02:44,309 --> 00:02:42,640
power

81
00:02:46,550 --> 00:02:44,319
you tell me an interesting thing so they

82
00:02:48,390 --> 00:02:46,560
have backups uh if if something were to

83
00:02:50,550 --> 00:02:48,400
go wrong a lot of these payloads have

84
00:02:52,869 --> 00:02:50,560
backups back here but that would be a

85
00:02:54,309 --> 00:02:52,879
quick turn right it would um they do

86
00:02:56,309 --> 00:02:54,319
have backups running here in the

87
00:02:57,910 --> 00:02:56,319
facility but again there's that drive to

88
00:03:00,149 --> 00:02:57,920

deal with and sometimes it's not a

89
00:03:02,070 --> 00:03:00,159
one-for-one backup the science and the

90
00:03:04,630 --> 00:03:02,080
primary unit needs to get moved over to

91
00:03:06,229 --> 00:03:04,640
the backup unit so we're always looking

92
00:03:09,190 --> 00:03:06,239
at the schedule how much time do we have

93
00:03:09,910 --> 00:03:09,200
left will it fit in and then sometimes

94
00:03:11,030 --> 00:03:09,920
they

95
00:03:13,430 --> 00:03:11,040
you know i don't know that there's had

96
00:03:15,270 --> 00:03:13,440
to be decisions made very rarely in the

97
00:03:16,790 --> 00:03:15,280
past where something's not working but

98
00:03:17,910 --> 00:03:16,800
let's go ahead and launch it anyway and

99
00:03:18,869 --> 00:03:17,920
hopefully we'll get it working on

100
00:03:20,309 --> 00:03:18,879
station

101
00:03:21,750 --> 00:03:20,319
all right well it sounds like exciting

102
00:03:23,589 --> 00:03:21,760
work busy work

103
00:03:24,710 --> 00:03:23,599
and really really fast i mean it

104
00:03:26,309 --> 00:03:24,720
probably doesn't seem that way to you

105
00:03:28,949 --> 00:03:26,319
though

106
00:03:30,550 --> 00:03:28,959
right i mean we work for three four

107
00:03:32,710 --> 00:03:30,560
months um

108
00:03:34,470 --> 00:03:32,720
until we get down to this last week but

109
00:03:36,869 --> 00:03:34,480
then when it comes down to it our

110
00:03:38,630 --> 00:03:36,879
schedules are built in 5 10 15 minute

111
00:03:40,070 --> 00:03:38,640
increments where we've got to be here at

112
00:03:41,430 --> 00:03:40,080
this point in time and here the next

113
00:03:43,430 --> 00:03:41,440

point in time