1
00:00:23,109 --> 00:00:20,950
i'm lori meigs and i'm bill hubshere

2
00:00:24,630 --> 00:00:23,119
welcome to focus on marshall on today's

3
00:00:25,910 --> 00:00:24,640
edition we're going to talk to the chief

4
00:00:27,429 --> 00:00:25,920
information officer out here at the

5
00:00:28,870 --> 00:00:27,439
marshall space flight center and learn

6
00:00:30,390 --> 00:00:28,880
more about the many different areas they

7
00:00:32,310 --> 00:00:30,400
support including this room right here

8
00:00:33,830 --> 00:00:32,320
where they do i.t security but first

9
00:00:35,830 --> 00:00:33,840
let's take a look at the reusable solid

10
00:00:37,670 --> 00:00:35,840
rocket motor project and their latest

11
00:00:40,150 --> 00:00:37,680
nighttime test

12
00:00:42,310 --> 00:00:40,160
we're in building 4202 and we are joined

13
00:00:44,310 --> 00:00:42,320

by jody singer she is the manager of the

14
00:00:45,430 --> 00:00:44,320
reusable solid rocket motor project

15
00:00:47,510 --> 00:00:45,440
first of all thanks a lot for being here

16
00:00:49,350 --> 00:00:47,520
today you're welcome let's start with uh

17
00:00:50,869 --> 00:00:49,360
well a definition of of the office and

18
00:00:52,709 --> 00:00:50,879
what your part of the mission is here

19
00:00:55,510 --> 00:00:52,719
okay with the reusable solid rocket

20
00:00:57,189 --> 00:00:55,520
motor or referred to as the rsrm we're

21
00:00:58,630 --> 00:00:57,199
responsible for making sure the hardware

22
00:01:00,549 --> 00:00:58,640
is ready to fly

23
00:01:02,389 --> 00:01:00,559
making sure that it's safe that we've

24
00:01:04,469 --> 00:01:02,399
processed it right and that we deliver

25
00:01:06,070 --> 00:01:04,479
it to our customer down at the ksc to

26
00:01:08,310 --> 00:01:06,080
make sure that it's ready for a

27
00:01:10,149 --> 00:01:08,320
successful launch we also make sure we

28
00:01:11,910 --> 00:01:10,159
take care of the test and any other

29
00:01:14,149 --> 00:01:11,920
thing that's responsible for making sure

30
00:01:15,590 --> 00:01:14,159
safe flight well just so that we can

31
00:01:17,109 --> 00:01:15,600
make sure everybody knows exactly what

32
00:01:18,390 --> 00:01:17,119
we're talking about we have a model of

33
00:01:20,230 --> 00:01:18,400
the shuttle back here can you show us

34
00:01:21,670 --> 00:01:20,240
exactly where the reusable solid rocket

35
00:01:23,429 --> 00:01:21,680
motor is sure

36
00:01:26,469 --> 00:01:23,439
this is referred to as the solid rocket

37
00:01:28,070 --> 00:01:26,479
booster or srb the motor is is a portion

38
00:01:30,310 --> 00:01:28,080

in here that has the propellant and

39
00:01:34,390 --> 00:01:30,320
actually gives the thrust of the motor

40
00:01:36,310 --> 00:01:34,400
it burns for 123 seconds into flight and

41
00:01:38,390 --> 00:01:36,320
it provides about 80 percent of the

42
00:01:40,710 --> 00:01:38,400
thrust up into space

43
00:01:42,149 --> 00:01:40,720
we have actually seen on a previous

44
00:01:44,310 --> 00:01:42,159
edition of focus on marshall we got to

45
00:01:46,630 --> 00:01:44,320
see one of the subscale tests of the

46
00:01:48,550 --> 00:01:46,640
motor down the east test area but we

47
00:01:50,469 --> 00:01:48,560
don't do full scale testing down there

48
00:01:52,630 --> 00:01:50,479
why is that well one of the reasons is

49
00:01:54,069 --> 00:01:52,640
you have to have a wide open place to

50
00:01:56,069 --> 00:01:54,079
make sure that it's safe and that you

51
00:01:58,230 --> 00:01:56,079
can have the right structure to do it

52
00:02:00,389 --> 00:01:58,240
what we do is we utilize marshall here

53
00:02:03,109 --> 00:02:00,399
to take care of the subsystem skill

54
00:02:05,910 --> 00:02:03,119
testing it allows us to take a design or

55
00:02:07,670 --> 00:02:05,920
an obsolescence issue work it on a scale

56
00:02:09,029 --> 00:02:07,680
small version of it then we can

57
00:02:10,630 --> 00:02:09,039
fine-tune it and then put it on a

58
00:02:12,949 --> 00:02:10,640
full-scale motor and then we take the

59
00:02:14,630 --> 00:02:12,959
full-scale motors and test them in utah

60
00:02:16,470 --> 00:02:14,640
because there we have wide open range in

61
00:02:18,550 --> 00:02:16,480
the desert and it makes it very safe and

62
00:02:19,990 --> 00:02:18,560
it has the facility to do it so what

63
00:02:22,470 --> 00:02:20,000

kind of challenges though do you face

64
00:02:24,470 --> 00:02:22,480
trying to to run a test based out of

65
00:02:26,150 --> 00:02:24,480
marshall but way up in utah well it's

66
00:02:28,710 --> 00:02:26,160
always location but we have great

67
00:02:32,150 --> 00:02:28,720
location great communication with our

68
00:02:33,910 --> 00:02:32,160
folks we have atk our contractor who's a

69
00:02:35,910 --> 00:02:33,920
critical part of this and making it

70
00:02:38,150 --> 00:02:35,920
happen we also get a lot of support from

71
00:02:39,430 --> 00:02:38,160
the engineering director at snma and a

72
00:02:40,869 --> 00:02:39,440
lot of support from marshall space

73
00:02:42,630 --> 00:02:40,879
flight center that helps us with our

74
00:02:44,869 --> 00:02:42,640
flight readiness reviews and then a lot

75
00:02:46,790 --> 00:02:44,879
of us travel out to utah for the actual

76
00:02:49,270 --> 00:02:46,800
test i understand there was some unique

77
00:02:51,190 --> 00:02:49,280
aspects to your most recent test in utah

78
00:02:53,430 --> 00:02:51,200
yes one of the unique things we did is

79
00:02:55,589 --> 00:02:53,440
we tested at night this was the second

80
00:02:57,350 --> 00:02:55,599
time we've ever tested at night and one

81
00:02:59,670 --> 00:02:57,360
of the benefits we got from it was the

82
00:03:01,750 --> 00:02:59,680
ability to look at our asset imagery

83
00:03:03,750 --> 00:03:01,760
from our cameras there are cameras that

84
00:03:05,430 --> 00:03:03,760
are mounted on the solid rocket booster

85
00:03:07,030 --> 00:03:05,440
and what this test did it gave us an

86
00:03:09,670 --> 00:03:07,040
ability to look at what we would see at

87
00:03:11,270 --> 00:03:09,680
a night launch and to get the best angle

88
00:03:13,270 --> 00:03:11,280

best definition to be able to see what

89
00:03:14,949 --> 00:03:13,280
we can best see on a shuttle launch as

90
00:03:16,470 --> 00:03:14,959
far as with ascent