



1
00:00:22,960 --> 00:00:20,830
I'm Lori Meggs and welcome to focus on

2
00:00:24,519 --> 00:00:22,970
Marshall on today's episode I'm on

3
00:00:26,109 --> 00:00:24,529
location at Kennedy Space Center in

4
00:00:28,060 --> 00:00:26,119
Florida where we'll take a look at a few

5
00:00:30,130 --> 00:00:28,070
of the ways marshall center employees

6
00:00:32,170 --> 00:00:30,140
participate in integration and launch

7
00:00:35,229 --> 00:00:32,180
activities here at the Cape so let's get

8
00:00:36,700 --> 00:00:35,239
started we've come inside the vehicle

9
00:00:38,470 --> 00:00:36,710
assembly building now and i'm joined by

10
00:00:40,060 --> 00:00:38,480
jolene martin she's the manager of

11
00:00:41,709 --> 00:00:40,070
Marshalls resident office here at

12
00:00:43,510 --> 00:00:41,719
Kennedy Space Center and Jolene you have

13
00:00:45,549 --> 00:00:43,520

a lot of employees here doing martial

14

00:00:47,410 --> 00:00:45,559

work to support NASA's mission that's

15

00:00:49,360 --> 00:00:47,420

right there's about 20 of us located

16

00:00:51,430 --> 00:00:49,370

here at Kennedy Space Center and we

17

00:00:53,979 --> 00:00:51,440

represent the design center for the

18

00:00:56,829 --> 00:00:53,989

propulsion elements and we do work here

19

00:00:58,360 --> 00:00:56,839

such as assist KSC in processing in

20

00:01:00,040 --> 00:00:58,370

several different facilities around this

21

00:01:01,479 --> 00:01:00,050

area so all of those elements come

22

00:01:02,799 --> 00:01:01,489

together in this building and you guys

23

00:01:03,969 --> 00:01:02,809

act as consultants for the people who

24

00:01:06,040 --> 00:01:03,979

are putting all the pieces of that

25

00:01:08,380 --> 00:01:06,050

puzzle together that's a way to look at

26

00:01:11,770 --> 00:01:08,390

it is that as like we're consultants for

27

00:01:14,680 --> 00:01:11,780

KSC who is actually processing the

28

00:01:16,270 --> 00:01:14,690

hardware and in the VA be here all the

29

00:01:18,250 --> 00:01:16,280

elements come together except for

30

00:01:20,950 --> 00:01:18,260

possibly the payloads the payloads come

31

00:01:23,920 --> 00:01:20,960

together in the OPF or in the pad the

32

00:01:25,420 --> 00:01:23,930

external tank solid rocket boosters the

33

00:01:27,850 --> 00:01:25,430

Space Shuttle main engines which are

34

00:01:29,530 --> 00:01:27,860

already attached to the orbiter are all

35

00:01:30,850 --> 00:01:29,540

assembled in this building but you guys

36

00:01:32,890 --> 00:01:30,860

do a lot of work before those pieces

37

00:01:35,770 --> 00:01:32,900

ever get to this building right and we

38

00:01:38,590 --> 00:01:35,780

should do we have facilities or i should

39

00:01:40,720 --> 00:01:38,600

say KSC has facilities that marshall is

40

00:01:43,150 --> 00:01:40,730

there to assist in any way when we see

41

00:01:44,620 --> 00:01:43,160

some of those i'd love to show you i'm

42

00:01:46,300 --> 00:01:44,630

here with tom angler and he's with

43

00:01:47,830 --> 00:01:46,310

Marshalls solid rocket booster project

44

00:01:49,420 --> 00:01:47,840

he's actually the manufacturing

45

00:01:51,190 --> 00:01:49,430

operations lead here at Kennedy Space

46

00:01:53,440 --> 00:01:51,200

Center in time it looks like we're going

47

00:01:54,880 --> 00:01:53,450

on a trip nice boat it is a nice boat

48

00:01:55,900 --> 00:01:54,890

but unfortunately we can't go along on

49

00:01:57,460 --> 00:01:55,910

their next trip they're getting ready to

50

00:01:59,320 --> 00:01:57,470

go retrieve the Boosters after our next

51
00:02:00,910 --> 00:01:59,330
flight and they actually go out to sea

52
00:02:02,590 --> 00:02:00,920
and wait for those solid rocket boosters

53
00:02:04,270 --> 00:02:02,600
to splashdown after launch right they

54
00:02:05,590 --> 00:02:04,280
sure do they're about 150 miles off the

55
00:02:07,270 --> 00:02:05,600
coast of Florida waiting for the

56
00:02:08,889 --> 00:02:07,280
Boosters come down and after the booster

57
00:02:10,930 --> 00:02:08,899
splashdown they'll they'll retrieve the

58
00:02:13,089 --> 00:02:10,940
parachutes and tow the Boosters back

59
00:02:17,020 --> 00:02:13,099
here to hang RAF can we go see hang RAF

60
00:02:18,220 --> 00:02:17,030
absolutely so Tom this is hangar AF sure

61
00:02:19,870 --> 00:02:18,230
is this is where we perform our

62
00:02:21,940 --> 00:02:19,880
disassembly operations after our

63
00:02:23,110 --> 00:02:21,950

retrieval process is complete we bring

64

00:02:24,190 --> 00:02:23,120

the Boosters here into the hangar on

65

00:02:26,650 --> 00:02:24,200

these rail cars that are

66

00:02:28,509 --> 00:02:26,660

Linus and we take them apart the motor

67

00:02:30,190 --> 00:02:28,519

components are sent back out to ATK in

68

00:02:32,290 --> 00:02:30,200

Utah and the booster components stay

69

00:02:34,030 --> 00:02:32,300

here are cleaned up and repainted and

70

00:02:35,770 --> 00:02:34,040

sent over to our assembly refurbishment

71

00:02:38,080 --> 00:02:35,780

facility all right let's go see that too

72

00:02:39,550 --> 00:02:38,090

great let's go all right time you

73

00:02:41,500 --> 00:02:39,560

brought us over to another facility now

74

00:02:42,580 --> 00:02:41,510

what goes on here this is our solid

75

00:02:44,050 --> 00:02:42,590

rocket booster assembly and

76

00:02:45,580 --> 00:02:44,060

refurbishment facility in what we do

77

00:02:47,410 --> 00:02:45,590

here is the manufacturer of the solid

78

00:02:48,729 --> 00:02:47,420

rocket booster components to prepare

79

00:02:50,949 --> 00:02:48,739

them for flight and transfer over the

80

00:02:52,690 --> 00:02:50,959

vab I see a lot of pieces to a puzzle

81

00:02:54,490 --> 00:02:52,700

that have to go back together here are

82

00:02:56,350 --> 00:02:54,500

some of them ready to go already yes for

83

00:02:58,120 --> 00:02:56,360

example the for December that we have

84

00:02:59,979 --> 00:02:58,130

over here is ready for flight and it's

85

00:03:02,080 --> 00:02:59,989

been prepared it's been checked out and

86

00:03:04,690 --> 00:03:02,090

is ready for transfer for the march two

87

00:03:05,890 --> 00:03:04,700

thousand seven flight and what else has

88

00:03:07,960 --> 00:03:05,900

to happen to these before they're ready

89

00:03:09,190 --> 00:03:07,970

to go well for example we've got painted

90

00:03:10,930 --> 00:03:09,200

structures which have just come over

91

00:03:13,930 --> 00:03:10,940

from hangar AF which you saw the in

92

00:03:15,430 --> 00:03:13,940

process over there and parachute pack is

93

00:03:16,630 --> 00:03:15,440

an example as well that we have to

94

00:03:18,309 --> 00:03:16,640

integrate with the with the flight

95

00:03:20,440 --> 00:03:18,319

vehicle the structures that come over

96

00:03:22,990 --> 00:03:20,450

have to be insulated we have a robotic

97

00:03:24,550 --> 00:03:23,000

spray on insulation system that puts

98

00:03:26,559 --> 00:03:24,560

installation on the structures and we

99

00:03:29,170 --> 00:03:26,569

assemble them we install electronics in

100

00:03:30,940 --> 00:03:29,180

the inside of them and then check it all

101
00:03:32,620 --> 00:03:30,950
out make sure it's ready to go for

102
00:03:34,270 --> 00:03:32,630
flight and it takes a lot of people to

103
00:03:37,180 --> 00:03:34,280
do all that work for Marshall right you

104
00:03:38,530 --> 00:03:37,190
sure does we have about 850 contractor

105
00:03:40,180 --> 00:03:38,540
and civil servant folks supporting

106
00:03:41,379 --> 00:03:40,190
Marshall down here all right and then

107
00:03:43,240 --> 00:03:41,389
you get it all ready to go and it goes

108
00:03:44,860 --> 00:03:43,250
to VA be right that's correct we send it

109
00:03:46,569 --> 00:03:44,870
over there and they integrate it with

110
00:03:49,449 --> 00:03:46,579
the flight vehicle thanks for showing us

111
00:03:50,830 --> 00:03:49,459
around thank you now we moved over to

112
00:03:52,599 --> 00:03:50,840
the rotation processing and search

113
00:03:54,370 --> 00:03:52,609

facility and i'm here with kenton bush

114

00:03:56,170 --> 00:03:54,380

he's a marshal representative with a

115

00:03:57,729 --> 00:03:56,180

reusable solid rocket booster project

116

00:03:59,229 --> 00:03:57,739

and can tell me what we're looking at

117

00:04:01,270 --> 00:03:59,239

here and what you do in this building

118

00:04:03,789 --> 00:04:01,280

okay this is a left F center segment

119

00:04:06,160 --> 00:04:03,799

that's behind us it was recently shipped

120

00:04:09,280 --> 00:04:06,170

here from Utah along with seven other

121

00:04:12,250 --> 00:04:09,290

segments it was brought in via rail they

122

00:04:13,509 --> 00:04:12,260

took it off from that railroad before

123

00:04:15,610 --> 00:04:13,519

but before they did that actually did a

124

00:04:17,110 --> 00:04:15,620

grain inspection rotated that to

125

00:04:18,550 --> 00:04:17,120

vertical they're doing the bare metal

126

00:04:21,069 --> 00:04:18,560

inspections here if there's any issues

127

00:04:22,960 --> 00:04:21,079

we work with the KSC ground ops

128

00:04:24,969 --> 00:04:22,970

personnel to resolve a lot of those

129

00:04:27,560 --> 00:04:24,979

issues and what is Marshall's role here

130

00:04:29,720 --> 00:04:27,570

Marcia's role is we are

131

00:04:32,420 --> 00:04:29,730

you know engineering support to make

132

00:04:35,390 --> 00:04:32,430

sure that the design requirements are

133

00:04:37,250 --> 00:04:35,400

met for the overall motor and for the

134

00:04:38,510 --> 00:04:37,260

overall solid rocket booster so these

135

00:04:40,190 --> 00:04:38,520

folks are getting it all ready to go to

136

00:04:42,440 --> 00:04:40,200

the VA be right that's exactly right

137

00:04:43,940 --> 00:04:42,450

once it's ready once they put do all the

138

00:04:46,670 --> 00:04:43,950

processing that they need to like build

139

00:04:48,620 --> 00:04:46,680

up the booster they'll take it over to

140

00:04:50,420 --> 00:04:48,630

the vab and they'll stack it you know

141

00:04:52,190 --> 00:04:50,430

one after the other and get it ready for

142

00:04:53,480 --> 00:04:52,200

flight alright sounds like they've got a

143

00:04:54,260 --> 00:04:53,490

lot of work to do in there we'll let you