1
00:00:04,470 --> 00:00:02,869
hi my name is julia cotabande and i'm a

2
00:00:06,389 --> 00:00:04,480
booster subsystem manager

3
00:00:08,870 --> 00:00:06,399
at nasa's marshall space flight center

4
00:00:13,509 --> 00:00:08,880
in huntsville alabama

5
00:00:17,109 --> 00:00:15,749
the five segment solid rocket boosters

6
00:00:19,830 --> 00:00:17,119
are the largest most

7
00:00:22,790 --> 00:00:19,840
powerful boosters ever built for flight

8
00:00:25,189 --> 00:00:22,800
each booster will produce more than 3.6

9
00:00:30,470 --> 00:00:25,199
million pounds of thrust launching the

10
00:00:31,750 --> 00:00:30,480
artemis missions to the moon because the

11
00:00:34,470 --> 00:00:31,760
sls rocket

12
00:00:36,630 --> 00:00:34,480
is built for deep space missions the sls

13
00:00:38,470 --> 00:00:36,640

boosters are designed to be faster and

14
00:00:40,229 --> 00:00:38,480
more powerful than space shuttle

15
00:00:41,910 --> 00:00:40,239
the biggest difference is the addition

16
00:00:44,630 --> 00:00:41,920
of a fifth propellant segment

17
00:00:46,869 --> 00:00:44,640
so the sls rocket can carry more weight

18
00:00:49,029 --> 00:00:46,879
farther

19
00:00:50,630 --> 00:00:49,039
the booster motor segments are stacked

20
00:00:52,549 --> 00:00:50,640
and mated to the forward and aft

21
00:00:56,830 --> 00:00:52,559
assemblies on the mobile launcher