

MIKE ROBERTS
TEAM LEAD FOR STRUCTURAL TESTING



SLS
SPACE LAUNCH SYSTEM

WARNING
RESTRICTED AREA
NO ENTRY

1
00:00:00,000 --> 00:00:03,086
Hi my name is Mike Roberts
I'm the mechanical team lead

2
00:00:03,086 --> 00:00:05,422
for structural testing at
Marshall Space Flight Center

3
00:00:05,422 --> 00:00:07,758
in Huntsville Alabama. This
is Rocket Science in

4
00:00:07,758 --> 00:00:08,592
Sixty Seconds.

5
00:00:08,592 --> 00:00:10,994
■■■■■

6
00:00:10,994 --> 00:00:13,230
I lead a team of test
engineers that perform

7
00:00:13,230 --> 00:00:15,599
the structural testing on
NASA's Space Launch System.

8
00:00:15,599 --> 00:00:18,468
On hardware such as the
Intertank for the core stage.

9
00:00:18,468 --> 00:00:21,338
■■■■■

10
00:00:21,338 --> 00:00:23,974
Using hydraulic systems we
apply forces above and

11
00:00:23,974 --> 00:00:26,843
beyond what the flight articles

will experience during

12

00:00:26,843 --> 00:00:27,944

lift off and flight.

13

00:00:27,944 --> 00:00:30,480

■■■■■

14

00:00:30,480 --> 00:00:33,183

Well, SLS will take humans
further into space than

15

00:00:33,183 --> 00:00:36,420

every before and we perform
structural tests to ensure

16

00:00:36,420 --> 00:00:39,523

the safety of the mission and
all future missions and

17

00:00:39,523 --> 00:00:42,259

to ensure the safety of
the astronauts.

18

00:00:42,259 --> 00:00:44,761

■■■■■

19

00:00:44,761 --> 00:00:46,863

Throughout the beginning all
of this was just a

20

00:00:46,863 --> 00:00:49,733

concept on paper. We took
the test requirements

21

00:00:49,733 --> 00:00:52,369

made this test hardware
and now we're actually

22

00:00:52,369 --> 00:00:54,905

producing and testing this
hardware. Seeing it

23

00:00:54,905 --> 00:00:56,807

all come together and
verifying that it is