

# KENNEDY COUNTDOWN



1  
00:00:07,370 --> 00:00:04,230  
hi i'm nasa kennedy's cornelli e antonor

2  
00:00:09,750 --> 00:00:07,380  
and this is kennedy countdown

3  
00:00:11,749 --> 00:00:09,760  
[Music]

4  
00:00:15,589 --> 00:00:11,759  
there's a whole lot of shaking going on

5  
00:00:17,990 --> 00:00:15,599  
with nasa's space launch system or sls

6  
00:00:20,390 --> 00:00:18,000  
to measure the level of vibrations sls

7  
00:00:22,870 --> 00:00:20,400  
will experience during flight teams at

8  
00:00:25,830 --> 00:00:22,880  
kennedy are performing tests inside the

9  
00:00:28,550 --> 00:00:25,840  
vehicle assembly building this involves

10  
00:00:31,429 --> 00:00:28,560  
attaching about 300 sensors to the sls

11  
00:00:33,990 --> 00:00:31,439  
stack to capture data and placing

12  
00:00:35,510 --> 00:00:34,000  
hydraulic shakers at different locations

13  
00:00:38,630 --> 00:00:35,520

on the rockets

14

00:00:40,869 --> 00:00:38,640

teams also are using a small hammer to

15

00:00:43,990 --> 00:00:40,879

deliver calibrated taps at different

16

00:00:45,430 --> 00:00:44,000

areas on the mobile launcher to simulate

17

00:00:48,229 --> 00:00:45,440

vibrations

18

00:00:51,270 --> 00:00:48,239

engineers are using an orion stage

19

00:00:53,270 --> 00:00:51,280

adapter structural test article and mass

20

00:00:56,150 --> 00:00:53,280

simulator to represent the weight of the

21

00:00:58,869 --> 00:00:56,160

stage adapter and spacecraft while teams

22

00:01:01,349 --> 00:00:58,879

continue launch processing of the real

23

00:01:03,990 --> 00:01:01,359

flight hardware slated to launch later

24

00:01:07,190 --> 00:01:04,000

this year artemis 1 will test sls and

25

00:01:10,230 --> 00:01:07,200

orion as an integrated system prior to

26

00:01:12,230 --> 00:01:10,240

crude flights to the moon

27

00:01:16,789 --> 00:01:12,240

through nasa's break the ice lunar

28

00:01:19,590 --> 00:01:16,799

challenge the agency awarded 500 000

29

00:01:22,630 --> 00:01:19,600

divided among 13 teams across the united

30

00:01:25,590 --> 00:01:22,640

states the teams submitted their ideas

31

00:01:27,990 --> 00:01:25,600

on how best to excavate resources during

32

00:01:29,910 --> 00:01:28,000

long duration missions to the moon

33

00:01:33,109 --> 00:01:29,920

the challenge involved designing a

34

00:01:36,310 --> 00:01:33,119

method to extract water by excavating

35

00:01:38,789 --> 00:01:36,320

and moving large amounts of icy regulus

36

00:01:40,870 --> 00:01:38,799

essentially moon dirt from a permanently

37

00:01:43,510 --> 00:01:40,880

shadowed area of the moon

38

00:01:46,149 --> 00:01:43,520

the challenge opened in november 2020

39

00:01:48,710 --> 00:01:46,159

and was managed by kennedy and nasa's

40

00:01:50,550 --> 00:01:48,720

marshall space flight center a future

41

00:01:54,870 --> 00:01:50,560

phase two of the challenge may focus on

42

00:01:56,870 --> 00:01:54,880

hardware development and demonstrations