
Rate/Frequency of shaking - 10 to 400 Hz

1
00:00:12,140 --> 00:00:09,259
hi I'm Randy Stark and this is your

2
00:00:14,539 --> 00:00:12,150
building curiosity update we're here in

3
00:00:16,760 --> 00:00:14,549
the environmental test facility at JPL

4
00:00:19,519 --> 00:00:16,770
where curiosity is going through a

5
00:00:22,099 --> 00:00:19,529
series of random vibration tests this

6
00:00:24,109 --> 00:00:22,109
test is like putting curiosity through a

7
00:00:27,620 --> 00:00:24,119
major earthquake it's going to shake it

8
00:00:30,140 --> 00:00:27,630
both side to side and up and down you'll

9
00:00:32,540 --> 00:00:30,150
notice that curiosity is actually in its

10
00:00:45,389 --> 00:00:32,550
flight configuration which is upside

11
00:00:54,759 --> 00:00:52,270
three two these tests will ensure that

12
00:00:56,889 --> 00:00:54,769
the hardware was not only built

13
00:00:58,740 --> 00:00:56,899

correctly but assembled and will survive

14
00:01:01,930 --> 00:00:58,750
the launch conditions

15
00:01:04,180 --> 00:01:01,940
next will be system thermal vacuum test

16
00:01:06,670 --> 00:01:04,190
where we put curiosity in a large vacuum

17
00:01:08,740 --> 00:01:06,680
chamber and simulate the environments

18
00:01:11,410 --> 00:01:08,750
both hot and cold that curiosity will

19
00:01:14,830 --> 00:01:11,420
see during his journey to Mars and also

20
00:01:16,359 --> 00:01:14,840
during its life on Mars it sure seems

21
00:01:18,010 --> 00:01:16,369
like we're putting curiosity through a

22
00:01:19,749 --> 00:01:18,020
lot of abuse but the more testing we

23
00:01:22,090 --> 00:01:19,759
could do here on earth will ensure a

24
00:01:24,490 --> 00:01:22,100
safer journey on the way to Mars and a

25
00:01:25,749 --> 00:01:24,500
longer life once we get to Mars this is