
(TIME LAPSE)

1
00:00:05,000 --> 00:00:09,000
Hi, I'm Chris White, systems engineer leading the integrated chain test program

2
00:00:09,000 --> 00:00:11,000
and I'm here with your Curiosity Update.

3
00:00:11,000 --> 00:00:16,000
Today I'm standing in the MSL vehicle system test bed with a test model of

4
00:00:16,000 --> 00:00:20,000
Curiosity rover and we're about to do a scooping and sample drop off test.

5
00:00:20,000 --> 00:00:24,000
So in today's test we'll bring the scoop on the end of the arm

6
00:00:24,000 --> 00:00:28,000
down into this tray of specially prepared sample.

7
00:00:28,000 --> 00:00:32,000
We'll be taking images and identifying the target where we want to actually scoop.

8
00:00:32,000 --> 00:00:39,000
Then we'll move the arm over, open up the scoop.

9
00:00:39,000 --> 00:00:46,000
We'll scoop a sample of material. We'll close the scoop.

10
00:00:46,000 --> 00:00:50,000
We'll bring the arm back up to the front of the rover and

11
00:00:50,000 --> 00:00:54,000
we'll drop a very small portion onto the observation tray.

12
00:00:54,000 --> 00:00:58,000
Then we'll spin the turret around and take additional images

13
00:00:58,000 --> 00:01:00,000

of the portion on the sample tray.

14
00:01:00,000 --> 00:01:04,000
Once we've acquired those images, we'll bring the turret around again

15
00:01:04,000 --> 00:01:09,000
and drop off a portion into the inlet covers on the top of the rover.

16
00:01:09,000 --> 00:01:12,000
The sample we need is not very big at all.

17
00:01:12,000 --> 00:01:15,000
In fact, it's about the size of this aspirin I'm holding.

18
00:01:15,000 --> 00:01:20,000
Once that portion is dropped in, it will go into the science instruments SAN.

19
00:01:20,000 --> 00:01:25,000
And when we're done with that, we'll bring the arm back out, then we'll clean everything out.