



1  
00:00:02,710 --> 00:00:08,530

A small-scale model of Sierra Nevada Corporation's Dream Chaser spacecraft was put to the test

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00:00:08,530 --> 00:00:15,860

recently in one of the historic wind tunnels at NASA's Langley Research Center in Virginia.

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00:00:15,860 --> 00:00:22,710

Engineers carefully glued 250 individual grains of sand in place on the 22-inch-long model

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00:00:22,710 --> 00:00:24,440

to simulate turbulence.

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00:00:24,440 --> 00:00:32,360

Mounted on an arm that does not interfere with airflow, the Dream Chaser model was subjected

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00:00:32,360 --> 00:00:36,949

to high speed wind flow that simulates the conditions the spacecraft will encounter during

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00:00:36,949 --> 00:00:42,170

its return from space and glide to a runway on Earth .

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00:00:42,170 --> 00:00:46,559

Engineers outfitted the Dream Chaser with hundreds of sensors to gather the smallest

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00:00:46,559 --> 00:00:50,109

detail about airflow around the lifting body.

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00:00:50,109 --> 00:00:54,449

Designers will use the results to confirm their expectations, make modifications to

11  
00:00:54,449 --> 00:00:58,050

the spacecraft and adjust computer models.

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00:00:58,050 --> 00:01:03,699

The six-week-long testing is the latest in  
the development of the spacecraft as the company