



CHELSEA WALKER

NORTHROP GRUMMAN PROCESS AND DESIGN ENGINEER

SLS
SPACE LAUNCH SYSTEM

1
00:00:00,000 --> 00:00:02,040
Hi, my name is Chelsea Walker.

2
00:00:02,120 --> 00:00:04,900
I'm a materials and process design engineer for Northrup Grumman

3
00:00:05,120 --> 00:00:08,960
the lead contractor for the solid rocket boosters of NASA's Space Launch System.

4
00:00:09,000 --> 00:00:11,280
This is Rocket Science in 60 Seconds.

5
00:00:14,360 --> 00:00:18,800
These boosters produce 7.2 million pounds of thrust during lift off and flight

6
00:00:18,880 --> 00:00:23,260
I work on the insulation that protects the solid rocket burster during flight.

7
00:00:25,820 --> 00:00:28,520
Here in the insulation and component work center

8
00:00:28,580 --> 00:00:30,520
the insulation, a rubber based material

9
00:00:30,600 --> 00:00:32,720
is applied to the inside of the rocket motor case

10
00:00:32,800 --> 00:00:34,720
to protect it from the burning propellant.

11
00:00:41,420 --> 00:00:41,380
Combine raw materials together through a two roll mill to form a sheet

12
00:00:41,420 --> 00:00:44,260
We then apply the insulation to the metal rocket motor case.

13
00:00:44,320 --> 00:00:46,880

After the insulation is cured a liner is applied