



Technicians successfully test the
JAMES WEBB SPACE TELESCOPE
DEPLOYABLE TOWER ASSEMBLY

1
00:00:01,070 --> 00:00:05,070
music

2
00:00:05,070 --> 00:00:12,000
Technicians successfully test James Webb Space Telescope's Deployable Tower Assembly.

3
00:00:12,000 --> 00:00:16,000
This tower creates a 4-foot (1.2 meter) gap between Webb's mirror and science segment and its sunshield and

4
00:00:16,000 --> 00:00:23,000
This gap allows Webb's active and passive cooling systems to cool its mirrors and sensors down to super cold

5
00:00:23,000 --> 00:00:32,710
Mirrors and instruments need to be super cold for Webb to perform its science.

6
00:00:32,710 --> 00:00:37,000
A special pulley and counterbalance system perfectly offset the weight of Webb's mirrors and instrument segm

7
00:00:37,000 --> 00:00:44,000
Canceling the effects of Earth's gravity for this test. The tower slowly extended upward over the course of sever

8
00:00:44,000 --> 00:00:51,720
This is the same maneuver it will perform once in space. NASA's James Webb Space Telescope will be the w