



1

00:00:00,000 --> 00:00:03,830

Now pay attention: drama happens here in tiny gestures.

2

00:00:03,850 --> 00:00:13,320

The Robotic Refueling Mission... proof positive that big things are possible...if you've got the patience to add up

3

00:00:13,340 --> 00:00:20,120

NASA wants to prove that robots make sense in space for all sorts of jobs, including the refueling of aging sate

4

00:00:20,140 --> 00:00:28,020

Midway into the mission, the team preps for the main event. But many steps need to happen before the refuelin

5

00:00:28,040 --> 00:00:29,980

Here's the scene at International Space Station.

6

00:00:30,000 --> 00:00:40,170

On the end of this long arm there's a custom tool designed for one purpose: removing the safety cap to a valve

7

00:00:40,190 --> 00:00:47,520

Engineers here at the Goddard Space Flight Center designed the tool, the test bed, and the overarching opera

8

00:00:47,540 --> 00:00:50,030

Experts at The Johnson Space Center drive the robot.

9

00:00:50,050 --> 00:00:53,390

Before refueling there's all sorts of prep.

10

00:00:53,410 --> 00:01:00,980

On flight day two, brows wrinkled from Maryland to Texas as a supporting robot arm came back with sketchy re

11

00:01:01,000 --> 00:01:06,980

Hours later, tension abated and the robot got a clean bill of health. The team continued.

12

00:01:07,000 --> 00:01:17,130

Flight day three: working remotely again 250 miles above Earth. Wires cut, robot tools tested, back on track. Al

13

00:01:17,150 --> 00:01:19,150

Which brings us up to date.

14

00:01:19,170 --> 00:01:26,150

Custom tool meets specialized cap...and twists...a vital test before the actual refueling.

15

00:01:26,170 --> 00:01:32,360

Spin it out...spin it back. Good test. Ready for the real thing.

16

00:01:32,380 --> 00:01:39,160

More than patience: vision. RRM represents on orbit operations of the future.