



1
00:00:00,000 --> 00:00:06,000
(Music)

2
00:00:06,000 --> 00:00:09,100
What next-gen capabilities is NASA testing

3
00:00:09,100 --> 00:00:12,410
in its cube satellite technology?

4
00:00:14,390 --> 00:00:17,800
After undocking, a resupply ship will maneuver

5
00:00:17,800 --> 00:00:21,300
above the ISS and deploy the cubesats.

6
00:00:21,300 --> 00:00:31,800
(Music)

7
00:00:31,800 --> 00:00:38,100
The cubesats detumble and stabilize themselves.

8
00:00:41,580 --> 00:00:44,090
Solar panels are deployed and two-way

9
00:00:44,090 --> 00:00:48,500
communication is established with a ground station.

10
00:00:48,500 --> 00:00:58,700
(Music)

11
00:00:58,700 --> 00:01:02,850
Optical data rates during downlink are expected

12
00:01:02,850 --> 00:01:07,280
up to 200 megabits per second.

13
00:01:11,700 --> 00:01:16,000

A series of propulsion and maneuvering tests

14

00:01:16,000 --> 00:01:20,280

will then be performed.

15

00:01:22,960 --> 00:01:27,000

The cubesats will maneuver in close proximity

16

00:01:27,000 --> 00:01:31,350

using variable drag and propulsion.

17

00:01:31,760 --> 00:01:35,700

The cubesats' ability to move around one another

18

00:01:35,700 --> 00:01:39,600

at 200 meter distances will be demonstrated.

19

00:01:40,300 --> 00:01:44,800

High-speed data transmission and close proximity