



1

00:00:04,509 --> 00:00:06,390

Mike Curie/NASA Launch Commentator: Good morning,
from Cape Canaveral Air

2

00:00:06,390 --> 00:00:10,490

Force Station in Florida, you are watching
live coverage of the launch of the SpaceX

3

00:00:10,490 --> 00:00:14,100

Falcon 9 rocket and Dragon capsule.

4

00:00:14,100 --> 00:00:21,200

This is Falcon Launch Control at T-minus one
hour, 14 minutes and counting.

5

00:00:21,200 --> 00:00:25,380

After four previous flights to the International
Space Station, including three official

6

00:00:25,380 --> 00:00:30,390

resupply missions for NASA, SpaceX is set
to launch its fourth Commercial

7

00:00:30,390 --> 00:00:39,360

Resupplies Services, or CRS, mission to the
station, which is designated as CRS-4.

8

00:00:39,360 --> 00:00:46,199

Liftoff is targeted for an instantaneous launch
window at 2:14 a.m. and 38 seconds

9

00:00:46,199 --> 00:00:48,190

Eastern Time.

10

00:00:48,190 --> 00:00:51,899

And at the time of launch, the International
Space Station will be flying at an altitude

11

00:00:51,899 --> 00:01:02,109

of 262 miles over the Arabian Sea, west of the southern tip of India and Sri Lanka.

12

00:01:02,109 --> 00:01:06,780

The Dragon spacecraft will be filled with more than 5,000 pounds of supplies and

13

00:01:06,780 --> 00:01:11,720

payloads including critical materials to support the 255 science and research

14

00:01:11,720 --> 00:01:18,750

investigations that will occur during ISS Expeditions 41 and 42.

15

00:01:18,750 --> 00:01:23,370

Dragon will be carrying three powered cargo payloads in its pressurized section and

16

00:01:23,370 --> 00:01:25,900

two in its unpressurized trunk.

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00:01:25,900 --> 00:01:31,980

The science payloads will enable model organism research using rodents, fruit flies

18

00:01:31,980 --> 00:01:34,130

and plants.

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00:01:34,130 --> 00:01:40,180

A special science payload is the ISS RapidScat Scatterometer to monitor ocean

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00:01:40,180 --> 00:01:43,030

surface wind speed and direction.

21

00:01:43,030 --> 00:01:48,350

Several new technology demos aboard will enable bone density studies, test how a

22

00:01:48,350 --> 00:01:53,890

small satellite moves and positions itself
in space using new thruster technology,

23

00:01:53,890 --> 00:01:59,090

and use the first 3D printer in space for
additive manufacturing.

24

00:01:59,090 --> 00:02:03,600

The mission also will be delivering IMAX cameras
for filming during four station

25

00:02:03,600 --> 00:02:09,140

increments and replacement batteries for the
spacesuits.

26

00:02:09,140 --> 00:02:13,709

This is the fourth of 12 missions under the
SpaceX Commercial Resupplies Services

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00:02:13,709 --> 00:02:15,640

Contract with NASA.

28

00:02:15,640 --> 00:02:18,920

Under the contract, SpaceX will deliver a
minimum of 20 metric

29

00:02:18,920 --> 00:02:24,870

tons of cargo to the station.

30

00:02:24,870 --> 00:02:31,580

The weather forecast is not exactly ideal,
however a "go" was given to fuel the

31

00:02:31,580 --> 00:02:33,159

Falcon 9 rocket.

32

00:02:33,159 --> 00:02:35,150

The launch team is on station.

