
CRS-15
NASA

1
00:00:00,870 --> 00:00:06,080
From NASA's Kennedy Space Center in Florida,
you're watching live coverage of the 15th

2
00:00:06,080 --> 00:00:09,680
SpaceX cargo resupply mission to the International
Space Station.

3
00:00:09,680 --> 00:00:13,530
Hi, I'm Stephanie Martin, and thanks for joining
us.

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00:00:13,530 --> 00:00:18,130
Today's launch to the station is scheduled
for 5:42 eastern this morning from Space Launch

5
00:00:18,130 --> 00:00:21,890
Complex 40 on Cape Canaveral Air Force Station.

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00:00:21,890 --> 00:00:26,970
Today we have team coverage from Dan Huot
at Station Mission Control in Houston, Tori

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00:00:26,970 --> 00:00:33,370
Mclendon and Mike Curie at NASA's Control
Center, SpaceX's Mike Hammersley, directly

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00:00:33,370 --> 00:00:38,820
from their Mission Control in Hawthorne, California,
and Amanda Griffin is standing by with several

9
00:00:38,820 --> 00:00:43,010
experts who have hardware and experiments
aboard the Dragon.

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00:00:43,010 --> 00:00:47,340
Today's launch will be SpaceX's 15th cargo
resupply mission to the International Space

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00:00:47,340 --> 00:00:48,409
Station.

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00:00:48,409 --> 00:00:51,859
And the second SpaceX resupply mission of
the year.

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00:00:51,859 --> 00:00:57,559
The Dragon spacecraft and Falcon 9 rocket
will deliver about 5,900 pounds of research,

14
00:00:57,559 --> 00:01:01,809
crew supplies and hardware to the orbiting
laboratory.

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00:01:01,809 --> 00:01:06,750
Today's launch window is instantaneous, meaning
SpaceX has only a single second to launch

16
00:01:06,750 --> 00:01:11,900
off Space Launch Complex 40 at Cape Canaveral
Air Force Station, adjacent to NASA's Kennedy

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00:01:11,900 --> 00:01:14,310
Space Center.

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00:01:14,310 --> 00:01:16,620
We are now 26 minutes away from launch.

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00:01:16,620 --> 00:01:20,810
Let's check in with NASA's Tori Mclendon and
Mike Curie.

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00:01:20,810 --> 00:01:22,000
Thanks Stephanie.

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00:01:22,000 --> 00:01:24,130
I'm Tori Mclendon, and with me is Mike Curie.

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00:01:24,130 --> 00:01:26,290
Good morning Tori.

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00:01:26,290 --> 00:01:30,970
We are looking forward to today's launch,
we're one day removed from an official full

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00:01:30,970 --> 00:01:31,970
Moon.

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00:01:31,970 --> 00:01:37,460
And the time of launch is 44 minutes away
from sunrise here on Florida's spacecoast.

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00:01:37,460 --> 00:01:43,570
So, I'm looking forward to a really, probably
spectacular view of the Falcon 9 and Dragon

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00:01:43,570 --> 00:01:45,920
as they lift off on the launch pad this morning.

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00:01:45,920 --> 00:01:46,920
Sounds great.

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00:01:46,920 --> 00:01:48,270
We're definitely looking forward it.

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00:01:48,270 --> 00:01:52,390
We are actually here live at Hangar AE on
Cape Canaveral Air Force Station, which is

31
00:01:52,390 --> 00:01:57,100
not far from the launch site of today's Falcon
9 rocket that will lift off from Space Launch

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00:01:57,100 --> 00:01:58,100
Complex 40.

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00:01:58,100 --> 00:01:59,100

That's right.

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00:01:59,100 --> 00:02:03,940
And you're looking at a live shot of the launch
site with the Falcon 9 rocket with gaseous

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00:02:03,940 --> 00:02:10,950
oxygen venting as the rocket is being prepared
for launch at 5:42 and 42 seconds a.m.

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00:02:10,950 --> 00:02:11,950
Eastern time.

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00:02:11,950 --> 00:02:14,910
As Stephanie was mentioning, it's an instantaneous
launch window.

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00:02:14,910 --> 00:02:20,200
So, 42 seconds after 5:42 a.m. will be the
time of launch this morning.

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00:02:20,200 --> 00:02:24,489
At that time, the International Space Station
will be over the South Pacific, southeast

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00:02:24,489 --> 00:02:28,840
of New Zealand, at an altitude of 258 statute
miles.

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00:02:28,840 --> 00:02:29,840
That's right.

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00:02:29,840 --> 00:02:33,859
And the launch today would have the Dragon
spacecraft that is filled with 5,900 pounds

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00:02:33,859 --> 00:02:38,849
of research, crew supplies and vehicle hardware
being captured by the International Space

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00:02:38,849 --> 00:02:42,420
Station on Monday, July 2, at 7 a.m.

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00:02:42,420 --> 00:02:43,420
Eastern.

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00:02:43,420 --> 00:02:46,620
The Dragon would then connect to the station's
Harmony module.

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00:02:46,620 --> 00:02:52,269
Launch teams received a weather briefing from
U.S. Air Force 45th Space Weather Squadron

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00:02:52,269 --> 00:02:53,849
officer Mike McAleenan.

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00:02:53,849 --> 00:02:55,629
He's our launch weather officer.

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00:02:55,629 --> 00:02:59,900
He says that we can expect good weather today.

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00:02:59,900 --> 00:03:01,950
Probability of violation is only 10 percent.

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00:03:01,950 --> 00:03:03,840
That means we're 90 percent favorable.

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00:03:03,840 --> 00:03:08,829
Light winds, 8 to 10 miles per hour from the
southwest.

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00:03:08,829 --> 00:03:11,670
Temperature at the time of liftoff expected
to be 76 degrees.

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00:03:11,670 --> 00:03:15,180

The only concerns, the cumulus and anvil cloud rules.

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00:03:15,180 --> 00:03:22,110
But again, at this time, Mike McAleenan is saying that we have thin and high cirrus clouds.

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00:03:22,110 --> 00:03:26,430
There's really not much of a probability of anything happening between now and the time

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00:03:26,430 --> 00:03:27,430
of launch.

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00:03:27,430 --> 00:03:30,370
So, it looks like weather's not going to be a concern for us today.

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00:03:30,370 --> 00:03:31,669
Sounds great.

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00:03:31,669 --> 00:03:36,120
Teams are also working through the necessary procedures to prepare the Falcon 9 rocket

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00:03:36,120 --> 00:03:37,959
and the Dragon spacecraft for launch.

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00:03:37,959 --> 00:03:43,159
And that includes loading fuel into both stages of the rocket and making sure that all systems

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00:03:43,159 --> 00:03:44,980
are properly checking out.

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00:03:44,980 --> 00:03:48,730
So far, the countdown has progressed toward the timeline.

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00:03:48,730 --> 00:03:55,029
Loading of RP-1 fuel began at T-minus one
hour, 10 minutes, at 4:32 a.m.

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00:03:55,029 --> 00:04:00,329
Loading of liquid oxygen began at T-minus
35 minutes at 5:07 a.m.

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00:04:00,329 --> 00:04:06,209
So at T-minus 23 minutes, 25 seconds and counting,
that is the current status from Falcon Launch