1
00:00:02,139 --> 00:00:05,220
Marie Lewis, NASA Communications: From NASA's
Kennedy Space Center in Florida, you're

2
00:00:05,220 --> 00:00:11,060
watching live coverage of the Parker Solar
Probe mission to unlock mysteries of the Sun's

3
00:00:11,060 --> 00:00:12,060
atmosphere.

4
00:00:12,060 --> 00:00:15,110
Good morning, I'm Marie Lewis.

5
00:00:15,110 --> 00:00:17,550
Thanks for waking up super early with us.

6
00:00:17,550 --> 00:00:21,730
We have team coverage of today's launch
from a viewing area near the iconic Vehicle

7
00:00:21,730 --> 00:00:26,929
Assembly Building and from our reporters and
commentators at the mission director center.

8
00:00:26,929 --> 00:00:32,810
But first, Parker Solar Probe is targeted
to launch at 3:53 this morning eastern time

9
00:00:32,810 --> 00:00:36,329
from Launch Complex 37 at Cape Canaveral Air
Force Station.

10
00:00:36,329 --> 00:00:39,710
The launch window is 65 minutes long.

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00:00:39,710 --> 00:00:46,359
Parker will take off on a United Launch Alliance
Delta IV Heavy rocket, speeding up to 430,000

12
00:00:46,359 --> 00:00:47,879
miles per hour in orbit.

13
00:00:47,879 --> 00:00:53,789
That’s fast enough to get from Philadelphia
to Washington, D.C. in just one second.

14
00:00:53,789 --> 00:00:58,510
It will travel seven times closer to the Sun
than any spacecraft before.

15
00:00:58,510 --> 00:01:03,090
Parker will help us understand how the Sun
affects weather in space.

16
00:01:03,090 --> 00:01:07,430
Coming up, we’ll find out how that space
weather can impact our satellites and how

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00:01:07,430 --> 00:01:12,070
Parker will manage to get so close to our
star without burning up.

18
00:01:12,070 --> 00:01:15,000
But first, we are now about 51 minutes from
launch.

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00:01:15,000 --> 00:01:19,659
Let’s check in with NASA’s Josh Finch
and Mic Woltman in Kennedy’s mission director

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00:01:19,659 --> 00:01:21,259
center for an update on the count.

21
00:01:21,259 --> 00:01:22,259
Hi, guys.

22
00:01:22,259 --> 00:01:25,070

NASA Launch Commentator Josh Finch: Good morning,
Marie, I’m Joshua Finch and I’m joined

23
00:01:25,070 --> 00:01:26,070
today by Mic Woltman.

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00:01:26,070 --> 00:01:27,340
Mic Woltman, NASA Launch Services Program:
Good morning, Josh.

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00:01:27,340 --> 00:01:30,790
I’m happy to be here today representing
NASA’s Launch Services Program, thank you.

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00:01:30,790 --> 00:01:32,219
Finch: Glad to have you with us.

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00:01:32,219 --> 00:01:34,329
We started out this morning with a 65-minute
window.

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00:01:34,329 --> 00:01:38,250
But now, we’re sitting at about 45 minutes
of our window, and Mic, can you tell us a

29
00:01:38,250 --> 00:01:39,250
little bit more about that.

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00:01:39,250 --> 00:01:42,840
Woltman: Yes, Josh, United Launch Alliance
and the NASA launch teams got on station about

31
00:01:42,840 --> 00:01:47,439
six hours ago; the teams have been working
diligently through some minor issues that

32
00:01:47,439 --> 00:01:53,090
occurred with some ground support equipment
prior to MST roll earlier this evening.

33
00:01:53,090 --> 00:01:58,230
And they got through that and MST roll occurred,
and then the team started working through

34
00:01:58,230 --> 00:01:59,230
the launch procedure.

35
00:01:59,230 --> 00:02:04,750
As they were doing that, they noticed some
sensor data that they really didn't like

36
00:02:04,750 --> 00:02:06,140
so they started looking at that.

37
00:02:06,140 --> 00:02:09,140
Performed a little troubleshooting on the
vehicle — they wanted to make sure all of

38
00:02:09,140 --> 00:02:15,620
that was working prior to going into the cryogenic
load early this morning.

39
00:02:15,620 --> 00:02:19,050
So once they got that all done, they were
ready to proceed forward.

40
00:02:19,050 --> 00:02:22,330
So that delayed cryo load just a little bit.

41
00:02:22,330 --> 00:02:27,410
With that, the cryo poll was taken to enter
into the loading procedure.

42
00:02:27,410 --> 00:02:33,360
And NASA's Launch Manager Omar Baez and
ULA's Launch Director Lou Mangieri coordinated

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00:02:33,360 --> 00:02:39,980
a new T-0 to help make up and get things processing

back on a nominal timeline for 3:53 a.m. this

44
00:02:39,980 --> 00:02:40,980
morning.

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00:02:40,980 --> 00:02:44,580
Finch: So we do still have 45 minutes remaining
in our window, should the launch teams need

46
00:02:44,580 --> 00:02:45,580
more time.

47
00:02:45,580 --> 00:02:49,470
You’re looking at a live shot of the Delta
IV Heavy rocket with the additional third

48
00:02:49,470 --> 00:02:53,129
state at Space Launch Complex 37.

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00:02:53,129 --> 00:02:55,050
The weather for today has actually been improving.

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00:02:55,050 --> 00:02:57,850
We started out late yesterday with some storms
in the area.

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00:02:57,850 --> 00:03:02,980
But those have since cleared out and our weather
has actually improved throughout the count.

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00:03:02,980 --> 00:03:04,940
Our winds are at 5 knots out of the west.

53
00:03:04,940 --> 00:03:06,299
Temperature right now is about 78, 79 degrees.

54
00:03:06,299 --> 00:03:12,240
The concerns that we were looking at earlier
were cumulus clouds, detached anvil clouds,

55
00:03:12,240 --> 00:03:16,030
with a probability of violation of 10 percent
— that’s actually been reduced to now

56
00:03:16,030 --> 00:03:21,590
5 percent, so that means we have 95 percent
chance of favorable weather for launch.

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00:03:21,590 --> 00:03:26,090
Again, you’re looking at a live view of
the Delta IV Heavy rocket and behind is the

58
00:03:26,090 --> 00:03:29,659
mobile service tower that Mic was talking
about, that they rolled back earlier.

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00:03:29,659 --> 00:03:31,560
Can you tell us a little bit about the MST
roll?

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00:03:31,560 --> 00:03:34,030
Woltman: Yes, the MST roll went very smoothly.

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00:03:34,030 --> 00:03:38,550
As I said earlier, they had a few issues with
some ground support equipment they got started.

62
00:03:38,550 --> 00:03:45,180
But once they got that fixed and moved, the
MST was jacked up and began rolling back.

63
00:03:45,180 --> 00:03:50,110
As it moved back behind the Delta IV vehicle
and exposing it to the Sun, it was a beautiful

64
00:03:50,110 --> 00:03:51,110
view.

65

00:03:51,110 --> 00:03:55,739
The MST continued to roll about 400 feet to
the north of the pad, where it got into its

66
00:03:55,739 --> 00:03:58,230
park position for launch this evening.

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00:03:58,230 --> 00:04:02,000
And once that was accomplished, the Delta
IV vehicle was out there in plain sight for

68
00:04:02,000 --> 00:04:04,050
everybody, as we can see here this evening.

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00:04:04,050 --> 00:04:07,930
Finch: And back to a live shot of the Delta
IV Heavy rocket.

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00:04:07,930 --> 00:04:11,599
Mic and I will continue to monitor the countdown
from the mission director center.