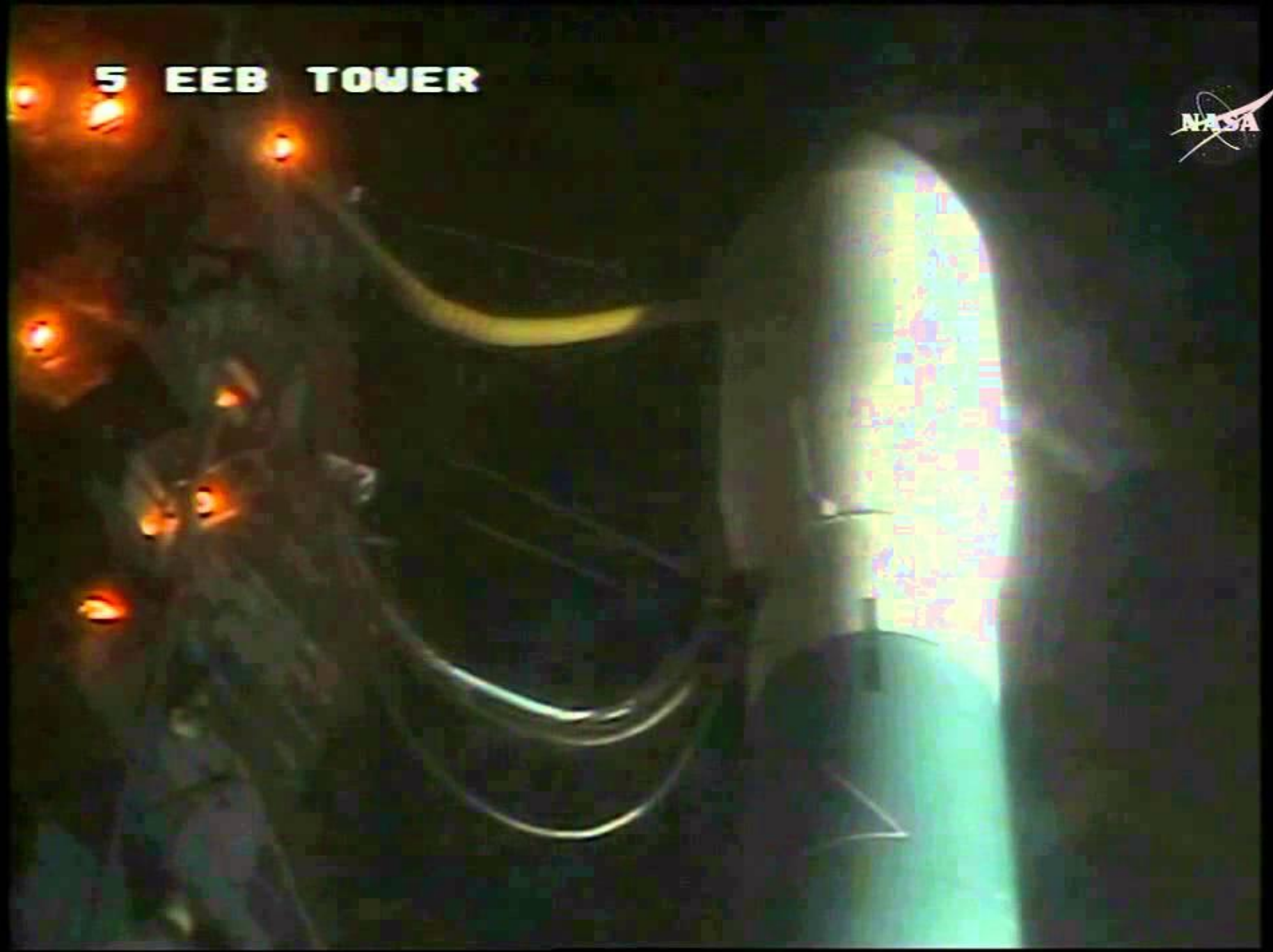
5 EEB TOWER
NASA
HD

1
00:00:00,859 --> 00:00:02,800
George Diller, NASA Launch Commentator: From
Vandenberg Air Force Base in

2
00:00:02,800 --> 00:00:09,490
California, this is Delta Launch Control at
T-minus one hour, 41 minutes, 13 seconds

3
00:00:09,490 --> 00:00:12,059
and counting.

4
00:00:12,059 --> 00:00:17,200
Our launch countdown is underway at Space
Launch Complex-2 at

5
00:00:17,200 --> 00:00:19,950
Vandenberg Air Force Base.

6
00:00:19,950 --> 00:00:24,690
With our built-in holds, we're slightly more
than two hours away from the launch of the

7
00:00:24,690 --> 00:00:29,190
Orbiting Carbon Observatory-2 spacecraft,
also called OCO-2.

8
00:00:29,190 --> 00:00:31,390
It is NASA's first mission

9
00:00:31,390 --> 00:00:36,250
dedicated to studying atmospheric carbon dioxide,
the leading human-produced

10
00:00:36,250 --> 00:00:39,910
greenhouse gas driving changes in Earth's
climate.

11
00:00:39,910 --> 00:00:45,630
OCO-2 will provide a new tool for understanding

the human and natural sources of

12
00:00:45,630 --> 00:00:51,290
carbon dioxide and emissions and the so called
natural sinks that absorb carbon dioxide

13
00:00:51,290 --> 00:00:53,600
and help control its build up.

14
00:00:53,600 --> 00:00:57,989
The observatory will measure the global geographic
distribution of these sources and

15
00:00:57,989 --> 00:01:01,600
sinks and study their changes over time.

16
00:01:01,600 --> 00:01:05,510
The spacecraft's final circular orbit will
be 438

17
00:01:05,510 --> 00:01:09,330
nautical miles at a inclination of 98.2 degrees.

18
00:01:09,330 --> 00:01:14,080
It is at a circular polar orbit circling the

19
00:01:14,080 --> 00:01:19,450
Earth every 99 minutes.

20
00:01:19,450 --> 00:01:23,650
Our countdown is going smoothly.