



1  
00:00:07,670 --> 00:00:03,230  
sooo shuttle launch control at t-minus

2  
00:00:09,980 --> 00:00:07,680  
three hours and holding we're now close

3  
00:00:12,410 --> 00:00:09,990  
to entering the final fab of five and a

4  
00:00:14,780 --> 00:00:12,420  
half hours of the countdown for the

5  
00:00:20,120 --> 00:00:14,790  
launch of last flight of space shuttle

6  
00:00:22,160 --> 00:00:20,130  
Endeavour on mission sts-134 the

7  
00:00:24,349 --> 00:00:22,170  
countdown is being controlled from

8  
00:00:27,200 --> 00:00:24,359  
firing room 4 at the launch control

9  
00:00:30,470 --> 00:00:27,210  
center here at complex 39 at the Kennedy

10  
00:00:33,799 --> 00:00:30,480  
Space Center in Florida and we are on

11  
00:00:39,110 --> 00:00:33,809  
schedule for liftoff targeted for a 56

12  
00:00:41,690 --> 00:00:39,120  
a.m. Eastern time this is the 134th

13  
00:00:43,459 --> 00:00:41,700

launch of the space shuttle program the

14

00:00:47,060 --> 00:00:43,469

25th launch of space shuttle Endeavour

15

00:00:49,340 --> 00:00:47,070

and the 36th flight to the International

16

00:00:51,619 --> 00:00:49,350

Space Station endeavour will deliver the

17

00:00:54,350 --> 00:00:51,629

Alpha Magnetic Spectrometer call AMS to

18

00:00:55,790 --> 00:00:54,360

a particle physics detector designed to

19

00:00:59,090 --> 00:00:55,800

search for various types of unusual

20

00:01:00,529 --> 00:00:59,100

matter by measuring cosmic rays its

21

00:01:02,180 --> 00:01:00,539

experiments are designed to help

22

00:01:05,570 --> 00:01:02,190

researchers study and look for clues to

23

00:01:07,640 --> 00:01:05,580

the formation of the universe endeavour

24

00:01:09,770 --> 00:01:07,650

will also bring up to the station the

25

00:01:11,560 --> 00:01:09,780

Express logistics carrier 3 that

26  
00:01:13,850 --> 00:01:11,570  
external platform for the space station

27  
00:01:15,560 --> 00:01:13,860  
that holds large equipment that will

28  
00:01:17,840 --> 00:01:15,570  
carry spare parts and equipment to

29  
00:01:20,179 --> 00:01:17,850  
sustain the Space Station's operation in

30  
00:01:23,390 --> 00:01:20,189  
space once the last space shuttle flight

31  
00:01:26,149 --> 00:01:23,400  
has occurred this summer there are four

32  
00:01:27,850 --> 00:01:26,159  
plan DBAs or spacewalks outside the

33  
00:01:30,830 --> 00:01:27,860  
International Space Station during the

34  
00:01:35,030 --> 00:01:30,840  
sts-134 mission to do maintenance and

35  
00:01:38,090 --> 00:01:35,040  
install new components these will be the

36  
00:01:40,370 --> 00:01:38,100  
last scheduled spacewalks by the space

37  
00:01:45,170 --> 00:01:40,380  
shuttle crew for the remainder of the

38  
00:01:47,389 --> 00:01:45,180

program meanwhile the final inspection

39  
00:01:49,219 --> 00:01:47,399  
team has been measuring the temperatures

40  
00:01:53,030 --> 00:01:49,229  
on the surface of the vehicle looking

41  
00:01:55,340 --> 00:01:53,040  
for any ice buildup and performing a

42  
00:01:57,050 --> 00:01:55,350  
final check for any fat or foreign

43  
00:02:00,139 --> 00:01:57,060  
object debris that could strike the

44  
00:02:02,810 --> 00:02:00,149  
orbiter upon ignition the seven-member

45  
00:02:05,179 --> 00:02:02,820  
crew will have walked up and down the

46  
00:02:07,700 --> 00:02:05,189  
entire 380 foot tower the fixed service

47  
00:02:11,259 --> 00:02:07,710  
structure at the conclusion of their

48  
00:02:17,630 --> 00:02:14,960  
weather continues to be favorable with

49  
00:02:21,190 --> 00:02:17,640  
just a 30% chance of not meeting our

50  
00:02:23,479 --> 00:02:21,200  
launch weather criteria this morning

51

00:02:27,289 --> 00:02:23,489

slight chance for a low cloud ceiling

52

00:02:30,670 --> 00:02:27,299

and a crosswind but at least at this

53

00:02:34,100 --> 00:02:30,680

point in time neither is being observed

54

00:02:35,979 --> 00:02:34,110

we have one hour 28 minutes 24 seconds

55

00:02:39,140 --> 00:02:35,989

remaining in this planned built-in hold