

-03:00:00

1  
00:00:04,340 --> 00:00:02,360  
standing alone on one of the world's

2  
00:00:06,680 --> 00:00:04,350  
most prized pieces of oceanfront

3  
00:00:09,620 --> 00:00:06,690  
property and lit up like a four and a

4  
00:00:11,959 --> 00:00:09,630  
half million pound candle space shuttle

5  
00:00:13,910 --> 00:00:11,969  
Discovery is fully fueled and ready for

6  
00:00:16,369 --> 00:00:13,920  
its early morning liftoff from launch

7  
00:00:20,929 --> 00:00:16,379  
pad 39a here at Kennedy Space Center in

8  
00:00:22,960 --> 00:00:20,939  
Florida discoveries bright orange

9  
00:00:25,460 --> 00:00:22,970  
external tank is filled with more than

10  
00:00:28,250 --> 00:00:25,470  
500,000 gallons of liquid hydrogen and

11  
00:00:30,500 --> 00:00:28,260  
liquid oxygen the shuttles power

12  
00:00:33,590 --> 00:00:30,510  
producing fuel cells general-purpose

13  
00:00:35,569 --> 00:00:33,600

computers and life-support systems are

14

00:00:39,500 --> 00:00:35,579

all activated and everything is working

15

00:00:41,780 --> 00:00:39,510

as expected about three and a half miles

16

00:00:43,369 --> 00:00:41,790

away from discovery launch controllers

17

00:00:45,770 --> 00:00:43,379

in kennedy's launch control center

18

00:00:47,479 --> 00:00:45,780

firing room for our overseeing all of

19

00:00:49,400 --> 00:00:47,489

the shuttle systems and verifying the

20

00:00:53,720 --> 00:00:49,410

step-by-step processes that will lead to

21

00:00:59,260 --> 00:00:53,730

an expected liftoff at 6 21 and 25

22

00:01:05,210 --> 00:01:02,090

Discovery's crew is awakened at 8pm

23

00:01:07,940 --> 00:01:05,220

Easter Sunday ate breakfast at

24

00:01:10,130 --> 00:01:07,950

eight-thirty underwent standard medical

25

00:01:12,410 --> 00:01:10,140

checks at nine o'clock and has been

26  
00:01:16,070 --> 00:01:12,420  
making last-minute preparations for this

27  
00:01:18,620 --> 00:01:16,080  
morning's launch attempt this will be

28  
00:01:21,830 --> 00:01:18,630  
the 35th night launch and space shuttle

29  
00:01:23,870 --> 00:01:21,840  
program history and as the shuttle

30  
00:01:25,999 --> 00:01:23,880  
rockets to the Northeast it will make an

31  
00:01:27,950 --> 00:01:26,009  
early morning wake-up call to residents

32  
00:01:30,620 --> 00:01:27,960  
of the Space Coast as well as much of

33  
00:01:34,429 --> 00:01:30,630  
America's East Coast as it climbs and

34  
00:01:38,780 --> 00:01:34,439  
accelerates to 17,500 miles an hour in

35  
00:01:40,190 --> 00:01:38,790  
just eight and a half minutes right

36  
00:01:42,050 --> 00:01:40,200  
after the launch tower is cleared

37  
00:01:44,569 --> 00:01:42,060  
discovery will perform a roll maneuver

38  
00:01:48,350 --> 00:01:44,579

pointing it precisely on the trajectory

39

00:01:51,469 --> 00:01:48,360  
of 51.6 degrees to catch up to the

40

00:01:53,899 --> 00:01:51,479  
International Space Station at the time

41

00:01:55,999 --> 00:01:53,909  
of liftoff the station will be about 220

42

00:01:58,760 --> 00:01:56,009  
miles over the Atlantic Ocean south west

43

00:02:02,780 --> 00:01:58,770  
of Ireland but about 17 minutes before

44

00:02:04,870 --> 00:02:02,790  
launch at 604 am the space station will

45

00:02:07,069 --> 00:02:04,880  
pass over the Kennedy Space Center

46

00:02:08,630 --> 00:02:07,079  
providing an excellent sighting

47

00:02:11,660 --> 00:02:08,640  
opportunity as it moves from the south

48

00:02:13,220 --> 00:02:11,670  
south west to the east and it should be

49

00:02:17,000 --> 00:02:13,230  
visible for about three minutes

50

00:02:18,559 --> 00:02:17,010  
peeking out of 43 degree elevation so

51  
00:02:20,270 --> 00:02:18,569  
here inside the launch control center

52  
00:02:22,399 --> 00:02:20,280  
the countdown for Discovery's launch is

53  
00:02:25,820 --> 00:02:22,409  
continuing on schedule the launch window

54  
00:02:27,380 --> 00:02:25,830  
opens at six 16 and 25 seconds and are

55  
00:02:31,089 --> 00:02:27,390  
preferred and planned launch time is

56  
00:02:33,830 --> 00:02:31,099  
exactly five minutes later at six 2125

57  
00:02:37,070 --> 00:02:33,840  
the launch window for a flight day three

58  
00:02:39,380 --> 00:02:37,080  
rendezvous closes at six 26 and 25

59  
00:02:41,900 --> 00:02:39,390  
seconds and for a flight day for

60  
00:02:45,470 --> 00:02:41,910  
rendezvous three minutes later at six 29

61  
00:02:46,880 --> 00:02:45,480  
and 35 seconds NASA managers have

62  
00:02:49,220 --> 00:02:46,890  
determined that they would use the

63  
00:02:53,089 --> 00:02:49,230

flight day for opportunity if it became

64

00:02:55,009 --> 00:02:53,099

necessary we're at t-minus three hours