

060



1  
00:00:27,740 --> 00:00:25,730  
from launch complex 39 at the Kennedy

2  
00:00:30,530 --> 00:00:27,750  
Space Center in Florida this is shuttle

3  
00:00:34,340 --> 00:00:30,540  
launch control at t-minus 3 hours and

4  
00:00:36,350 --> 00:00:34,350  
holding we are now in the final five and

5  
00:00:39,380 --> 00:00:36,360  
1/2 hours of the countdown for the

6  
00:00:40,970 --> 00:00:39,390  
launch of the space shuttle Atlantis on

7  
00:00:52,160 --> 00:00:40,980  
the second mission to dock with the

8  
00:01:19,810 --> 00:00:55,069  
at t-minus three hours and holding this

9  
00:01:26,270 --> 00:01:22,370  
and has taken somewhat longer than usual

10  
00:01:28,190 --> 00:01:26,280  
to fill the liquid oxygen tank today

11  
00:01:30,710 --> 00:01:28,200  
since we had a brief failure of the

12  
00:01:55,380 --> 00:01:30,720  
liquid oxygen pump at the launch pad at

13  
00:01:59,940 --> 00:01:58,050

here we are now in the dining room at

14

00:02:05,609 --> 00:01:59,950

the crew quarters where we see the five

15

00:02:08,010 --> 00:02:05,619

STS seventy four crew members and at the

16

00:02:15,630 --> 00:02:08,020

end of the table is mission specialist

17

00:02:23,559 --> 00:02:18,090

Canadian astronaut a mission specialist

18

00:02:23,569 --> 00:02:30,539

the commander of our mission Ken Cameron

19

00:02:39,640 --> 00:02:32,860

mission specialist and flight engineer

20

00:02:44,080 --> 00:02:39,650

Jerry Ross and at the far end of the

21

00:02:46,809 --> 00:02:44,090

table our pilot Jim Hall cell and after

22

00:02:49,839 --> 00:02:46,819

lunch they'll go for briefing on the

23

00:02:52,089 --> 00:02:49,849

weather outlook great interest to to

24

00:02:52,720 --> 00:02:52,099

them this morning and then to the crew

25

00:03:11,260 --> 00:02:52,730

suit-up room

26

00:03:16,550 --> 00:03:13,460

this is shuttle launch control at

27

00:03:18,230 --> 00:03:16,560

t-minus three hours and holding where we

28

00:03:27,940 --> 00:03:18,240

are now in the student room and we see

29

00:03:34,869 --> 00:03:32,350

going across the room and our pilot Jim

30

00:03:36,869 --> 00:03:34,879

I'll sell undergoing their final suit up

31

00:03:47,350 --> 00:03:36,879

and check out other helmet

32

00:03:49,900 --> 00:03:47,360

pressurization checks mission specialist

33

00:03:51,790 --> 00:03:49,910

Chris Hatfield will be operating the

34

00:04:04,980 --> 00:03:51,800

remote manipulator arm during this

35

00:04:11,110 --> 00:04:08,650

going across the room and we sell bill

36

00:04:20,379 --> 00:04:11,120

McArthur finishing his suit up

37

00:04:20,389 --> 00:04:30,149

and this should be Jerry Ross

38

00:04:35,129 --> 00:04:33,010

he's launch and entry suits are not very

39

00:04:38,320 --> 00:04:35,139

comfortable that they're certainly

40

00:04:42,339 --> 00:04:38,330

functional very visible temperature now

41

00:04:45,450 --> 00:04:42,349

at the launch pad at 58 degrees picking

42

00:04:55,300 --> 00:04:45,460

up the count now and three two one

43

00:04:57,369 --> 00:04:55,310

t-minus three hours and Counting this is

44

00:05:00,309 --> 00:04:57,379

shuttle launch control at t-minus two

45

00:05:04,350 --> 00:05:00,319

hours 54 minutes 55 seconds and counting

46

00:05:07,209 --> 00:05:04,360

and the STS 74 astronauts now are

47

00:05:09,969 --> 00:05:07,219

leaving the suit off room headed for the

48

00:05:12,089 --> 00:05:09,979

elevator going from the third floor of

49

00:05:15,999 --> 00:05:12,099

the operations and check-out building

50

00:05:57,730 --> 00:05:16,009

down to the awaiting astronaut transfer

51  
00:06:03,730 --> 00:06:00,339  
where are the clothes our crew is

52  
00:06:08,480 --> 00:06:03,740  
wetting them we hope to have at least

53  
00:06:11,089 --> 00:06:08,490  
one site available to us this is shuttle

54  
00:06:15,980 --> 00:06:11,099  
launch control at t-minus 2 hours 31

55  
00:06:17,420 --> 00:06:15,990  
minutes 43 seconds in County in the

56  
00:06:31,980 --> 00:06:17,430  
white room at the pad we see our

57  
00:06:39,200 --> 00:06:36,530  
seeing now pilot Jim Hall cell

58  
00:06:45,920 --> 00:06:39,210  
being prepared for his entry into

59  
00:06:48,830 --> 00:06:45,930  
Atlantis this is shuttle launch control

60  
00:06:50,260 --> 00:06:48,840  
at t-minus two hours 17 minutes 20

61  
00:06:55,390 --> 00:06:50,270  
seconds and counting

62  
00:06:59,060 --> 00:06:55,400  
Jim all cell now boarding Atlantis and

63  
00:07:01,690 --> 00:06:59,070

astronaut bill McArthur is now being

64

00:07:22,650 --> 00:07:01,700

assisted with his launch and entry suit

65

00:07:28,690 --> 00:07:27,160

and in the white room we see Canadian

66

00:07:32,290 --> 00:07:28,700

astronaut mission specialist Chris

67

00:07:40,750 --> 00:07:32,300

Hadfield better she has suit up and

68

00:07:47,030 --> 00:07:45,379

you said a lot of contract - Houston

69

00:07:54,980 --> 00:07:47,040

good morning Kent seems like we just did

70

00:07:57,320 --> 00:07:54,990

this seems like over the last time I

71

00:07:59,530 --> 00:07:57,330

feel pretty good about the situation I

72

00:08:01,580 --> 00:07:59,540

hope it's still looking good over there

73

00:08:02,840 --> 00:08:01,590

yeah there's some little guys just

74

00:08:04,790 --> 00:08:02,850

hanging around out there but I think we

75

00:08:06,230 --> 00:08:04,800

can hopefully get those things to work

76  
00:08:12,070 --> 00:08:06,240  
out and get you guys on your way today

77  
00:08:12,080 --> 00:08:17,920  
see now mission specialist Jerry Ross

78  
00:08:26,480 --> 00:08:24,260  
sitting up he'll be the last aboard and

79  
00:08:28,430 --> 00:08:26,490  
he's our flight engineer so on both

80  
00:09:17,760 --> 00:08:28,440  
ascent and descent he'll be sitting in

81  
00:09:23,140 --> 00:09:20,830  
and PR on behalf the one thing we hope

82  
00:09:27,220 --> 00:09:23,150  
today is a day for you and we'll have a

83  
00:09:29,530 --> 00:09:27,230  
good ride up the mirror thank you very

84  
00:09:32,710 --> 00:09:29,540  
much rather work sorry I had to do this

85  
00:09:37,060 --> 00:09:32,720  
choice but already now it looks good we

86  
00:09:40,660 --> 00:09:37,070  
should appreciate all the other complete

87  
00:10:22,410 --> 00:09:40,670  
you just because it's not for copy thank

88  
00:10:28,320 --> 00:10:26,880

and in India on trekker Jim MP look at

89

00:10:33,270 --> 00:10:28,330

know he says you're clear to launch

90

00:10:35,100 --> 00:10:33,280

copy that and Atlantis looks like we got

91

00:10:36,840 --> 00:10:35,110

everything lined up waiting for you guys

92

00:10:39,470 --> 00:10:36,850

to go so have a good mission and we'll

93

00:10:42,090 --> 00:10:39,480

see you back here in about eight days

94

00:10:44,940 --> 00:10:42,100

after that say about service ship they

95

00:10:47,700 --> 00:10:44,950

said to have an entity not Spectre you

96

00:10:48,000 --> 00:10:47,710

have a clearance log and CD copies thank

97

00:10:50,010 --> 00:10:48,010

you

98

00:11:04,350 --> 00:10:50,020

murderous flight controls have been

99

00:11:07,050 --> 00:11:04,360

tested and standing by now - gimbal the

100

00:11:11,430 --> 00:11:07,060

main engines we see the speed brake

101  
00:11:14,640 --> 00:11:11,440  
being cycled here and now the main

102  
00:11:38,990 --> 00:11:14,650  
engines are gambling or being moved

103  
00:11:39,000 --> 00:11:45,340  
t-minus three minutes

104  
00:11:45,350 --> 00:11:52,170  
yellow sister for et lo2 preservation

105  
00:11:52,180 --> 00:11:56,490  
oxygen tank now being pressurized

106  
00:12:01,450 --> 00:12:00,100  
weather officer had Priscilla just has

107  
00:12:16,870 --> 00:12:01,460  
passed the word that they are now

108  
00:12:32,420 --> 00:12:22,370  
and the gaseous oxygen vent hood Cox

109  
00:12:33,949 --> 00:12:32,430  
beanie cap now being retracted Graham

110  
00:12:36,290 --> 00:12:33,959  
launch sequencer will make a check at

111  
00:12:58,819 --> 00:12:36,300  
t-minus 37 seconds to make sure that

112  
00:13:00,920 --> 00:12:58,829  
it's in a fully retracted position there

113  
00:13:02,629 --> 00:13:00,930

was an orbiter test conductor Mikey

114

00:13:10,699 --> 00:13:02,639

Lockheed Martin's wishing the crew a

115

00:13:24,379 --> 00:13:10,709

good flight t-minus one minute thirty

116

00:13:39,189 --> 00:13:26,210

like what hydrogen tank now it's light

117

00:13:43,129 --> 00:13:41,299

t-minus one minute ground launch

118

00:13:46,939 --> 00:13:43,139

sequencer now verifying the main engines

119

00:13:48,379 --> 00:13:46,949

are ready for ignition heaters around

120

00:13:52,219 --> 00:13:48,389

the joints of the solid rocket boosters

121

00:13:57,789 --> 00:13:52,229

are being turned off the sound

122

00:14:02,359 --> 00:14:00,139

light data recorder is now recording

123

00:14:04,639 --> 00:14:02,369

fill and drain valves on the external

124

00:14:09,360 --> 00:14:04,649

tank are closed standing by for the

125

00:14:09,370 --> 00:14:13,340

and the handoff has been completed

126

00:14:13,350 --> 00:14:19,210

Atlanta's computer is now controlling

127

00:14:30,120 --> 00:14:22,900

morning sound suppression water system

128

00:14:40,720 --> 00:14:34,060

nine eight seven go for main engine

129

00:14:43,360 --> 00:14:40,730

start four three two one and liftoff of

130

00:14:45,490 --> 00:14:43,370

space shuttle Atlantis with the Russian

131

00:15:13,460 --> 00:14:45,500

docking module the threshold the world

132

00:15:18,360 --> 00:15:16,050

main engines on Atlantis a nail that I

133

00:15:26,370 --> 00:15:18,370

linked back to teeth are throttled back

134

00:15:31,740 --> 00:15:28,830

planets already traveling 700

135

00:15:55,550 --> 00:15:31,750

miles-per-hour aptitude for nautical

136

00:16:05,010 --> 00:16:03,690

Atlantis go at throttle up Lana's three

137

00:16:06,860 --> 00:16:05,020

main engines are now back at full

138

00:16:10,470 --> 00:16:06,870

throttle

139

00:16:13,290 --> 00:16:10,480

lantus altitude 12 miles nine miles

140

00:16:18,380 --> 00:16:13,300

downrange from the launch pad Atlantis

141

00:16:22,320 --> 00:16:20,850

one minute 40 seconds since launch

142

00:16:23,610 --> 00:16:22,330

Atlantis has already burned more than

143

00:16:25,230 --> 00:16:23,620

tuna quarter million pounds of

144

00:16:33,280 --> 00:16:25,240

propellant and weighs less than half of

145

00:16:36,790 --> 00:16:35,140

flight controllers are now standing by

146

00:16:51,140 --> 00:16:36,800

for burnouts in jettison of the twin

147

00:17:11,740 --> 00:16:53,290

booster officer confirms a good

148

00:17:29,840 --> 00:17:21,319

that it was free and it was choppy and