



1
00:00:11,030 --> 00:00:10,230
all three engines up and burning

2
00:00:11,910 --> 00:00:11,040
two

3
00:00:15,110 --> 00:00:11,920
one

4
00:00:17,269 --> 00:00:15,120
zero and liftoff the final liftoff of

5
00:00:21,349 --> 00:00:17,279
atlantis on the shoulders of the space

6
00:00:23,429 --> 00:00:21,359
shuttle america will continue the dream

7
00:00:25,910 --> 00:00:23,439
the program

8
00:00:27,429 --> 00:00:25,920
roger roll atlantis

9
00:00:29,750 --> 00:00:27,439
houston now controlling the flight of

10
00:00:31,990 --> 00:00:29,760
atlantis the space shuttle spreads its

11
00:00:40,069 --> 00:00:32,000
wings one final time for the start of a

12
00:00:40,079 --> 00:00:43,110
main gear

13
00:00:47,110 --> 00:00:45,190

and mission touchdown houston

14

00:00:48,549 --> 00:00:47,120

after serving the world for over 30

15

00:00:49,750 --> 00:00:48,559

years the space shuttle's earned its

16

00:00:53,510 --> 00:00:49,760

place in history

17

00:00:57,189 --> 00:00:55,270

we copy your will stop and we'll take

18

00:00:59,510 --> 00:00:57,199

this opportunity to congratulate you

19

00:01:01,990 --> 00:00:59,520

atlantis as well as the thousands of

20

00:01:04,630 --> 00:01:02,000

passionate individuals across this great

21

00:01:06,789 --> 00:01:04,640

space faring nation who truly empowered

22

00:01:08,789 --> 00:01:06,799

this incredible spacecraft

23

00:01:11,510 --> 00:01:08,799

which for three decades has inspired

24

00:01:13,670 --> 00:01:11,520

millions around the globe

25

00:01:15,510 --> 00:01:13,680

a year after the retirement of nasa's

26

00:01:18,149 --> 00:01:15,520

space shuttles and their shipment to

27

00:01:19,910 --> 00:01:18,159

museums across the nation the workforce

28

00:01:23,030 --> 00:01:19,920

at nasa's kennedy space center in

29

00:01:24,390 --> 00:01:23,040

florida is remaking america's gateway to

30

00:01:27,190 --> 00:01:24,400

space

31

00:01:29,190 --> 00:01:27,200

a dynamic infrastructure is taking shape

32

00:01:31,510 --> 00:01:29,200

one designed to host many kinds of

33

00:01:33,990 --> 00:01:31,520

rockets and spacecraft sending people on

34

00:01:36,630 --> 00:01:34,000

humanity's great adventures

35

00:01:38,710 --> 00:01:36,640

orbiter processing facility 3 no longer

36

00:01:40,630 --> 00:01:38,720

needed to surface shuttles has been

37

00:01:41,830 --> 00:01:40,640

revamped and turned over to space

38

00:01:43,350 --> 00:01:41,840

florida

39

00:01:45,910 --> 00:01:43,360
they will partner with the boeing

40

00:01:48,429 --> 00:01:45,920
company to manufacture assemble and test

41

00:01:51,350 --> 00:01:48,439
the company's crew space transportation

42

00:01:53,990 --> 00:01:51,360
cst-100 spacecraft

43

00:01:55,670 --> 00:01:54,000
opfs 1 and 2 also are expected to be

44

00:01:57,670 --> 00:01:55,680
used in the future for spacecraft

45

00:02:00,789 --> 00:01:57,680
processing as kennedy's unique

46

00:02:03,030 --> 00:02:00,799
capabilities are adapted to new users

47

00:02:06,230 --> 00:02:03,040
negotiations are also underway at launch

48

00:02:08,550 --> 00:02:06,240
complex 39 for the use of its twin pads

49

00:02:10,229 --> 00:02:08,560
a and b

50

00:02:11,270 --> 00:02:10,239
we still have many challenges in front

51
00:02:13,670 --> 00:02:11,280
of us

52
00:02:16,070 --> 00:02:13,680
but i believe our future is bright

53
00:02:18,550 --> 00:02:16,080
and as great as our last 50 years have

54
00:02:21,030 --> 00:02:18,560
been i believe our next 50 years are

55
00:02:23,270 --> 00:02:21,040
going to be even better

56
00:02:25,270 --> 00:02:23,280
some of the work has already paid off

57
00:02:27,270 --> 00:02:25,280
offering the nasa community hints of

58
00:02:29,190 --> 00:02:27,280
what the future holds

59
00:02:31,190 --> 00:02:29,200
spacex for instance launched a

60
00:02:34,470 --> 00:02:31,200
demonstration cargo delivery flight to

61
00:02:36,229 --> 00:02:34,480
the international space station in may

62
00:02:38,470 --> 00:02:36,239
the company and nasa prove that

63
00:02:42,309 --> 00:02:38,480

cooperation can overcome daunting

64

00:02:45,110 --> 00:02:42,319

technical hurdles safely and effectively

65

00:02:46,869 --> 00:02:45,120

like opf-3 the high bay at the

66

00:02:49,350 --> 00:02:46,879

operations and checkout building has

67

00:02:51,030 --> 00:02:49,360

been remade into a modern aerospace

68

00:02:53,110 --> 00:02:51,040

factory floor

69

00:02:55,670 --> 00:02:53,120

space florida and lockheed martin space

70

00:02:57,750 --> 00:02:55,680

systems company renovated the facility

71

00:02:59,430 --> 00:02:57,760

once used to process space vehicles in

72

00:03:01,430 --> 00:02:59,440

the apollo era

73

00:03:03,910 --> 00:03:01,440

it will serve as the final assembly and

74

00:03:06,070 --> 00:03:03,920

checkout facility for the orion crew

75

00:03:09,030 --> 00:03:06,080

exploration vehicles which includes the

76

00:03:11,190 --> 00:03:09,040

crew and service modules

77

00:03:13,910 --> 00:03:11,200

the first space bound orion rolled into

78

00:03:16,229 --> 00:03:13,920

the facility june 29th to begin assembly

79

00:03:18,070 --> 00:03:16,239

and processing for a flight test in

80

00:03:20,070 --> 00:03:18,080

2014.

81

00:03:22,630 --> 00:03:20,080

nasa and its astronauts are counting on

82

00:03:25,270 --> 00:03:22,640

the orion to take people into deep space

83

00:03:27,190 --> 00:03:25,280

for the first time since apollo

84

00:03:28,309 --> 00:03:27,200

we don't know what we don't know and we

85

00:03:29,670 --> 00:03:28,319

find those things we make those

86

00:03:31,190 --> 00:03:29,680

discoveries we're going to be better off

87

00:03:32,630 --> 00:03:31,200

just as a people but also it's going to

88

00:03:34,630 --> 00:03:32,640

have applications that help make our

89

00:03:36,710 --> 00:03:34,640

life better

90

00:03:39,110 --> 00:03:36,720

workers and technicians are refurbishing

91

00:03:40,550 --> 00:03:39,120

the vehicle assembly building launch pad

92

00:03:42,229 --> 00:03:40,560

39b

93

00:03:44,710 --> 00:03:42,239

and numerous other facilities in

94

00:03:47,750 --> 00:03:44,720

anticipation of a new golden age of

95

00:03:49,750 --> 00:03:47,760

space flight when the work is completed

96

00:03:52,390 --> 00:03:49,760

the center will for the first time be

97

00:03:54,070 --> 00:03:52,400

equipped to assemble process and launch

98

00:03:56,149 --> 00:03:54,080

several kinds of spacecraft and

99

00:03:58,830 --> 00:03:56,159

launchers including ships designed to

100

00:04:00,390 --> 00:03:58,840

take astronauts far beyond low earth

101
00:04:02,390 --> 00:04:00,400
orbit

102
00:04:04,710 --> 00:04:02,400
the commercial crew program based at

103
00:04:07,350 --> 00:04:04,720
kennedy has made strides toward bringing

104
00:04:09,509 --> 00:04:07,360
those vehicles into existence by sharing

105
00:04:11,190 --> 00:04:09,519
nasa's hard-earned expertise with

106
00:04:13,190 --> 00:04:11,200
private companies

107
00:04:15,429 --> 00:04:13,200
the goal is to develop innovative

108
00:04:18,069 --> 00:04:15,439
spacecraft to take astronauts to the

109
00:04:19,749 --> 00:04:18,079
international space station

110
00:04:21,990 --> 00:04:19,759
while the launchers and spacecraft that

111
00:04:23,189 --> 00:04:22,000
will take people into space are invented

112
00:04:25,510 --> 00:04:23,199
and tested

113
00:04:27,430 --> 00:04:25,520

nasa's launch services program continues

114

00:04:30,390 --> 00:04:27,440

to dispatch nasa explorers of a

115

00:04:32,070 --> 00:04:30,400

different kind to survey the cosmos and

116

00:04:35,189 --> 00:04:32,080

visit some of the most tantalizing

117

00:04:37,510 --> 00:04:35,199

destinations in the solar system

118

00:04:39,909 --> 00:04:37,520

riding atop an atlas v rocket the

119

00:04:43,670 --> 00:04:39,919

car-sized rover curiosity lifted off

120

00:04:45,830 --> 00:04:43,680

from kennedy on november 26 2011 on an

121

00:04:48,629 --> 00:04:45,840

ambitious mission to place a robotic

122

00:04:50,870 --> 00:04:48,639

geologist on mars so researchers can

123

00:04:52,629 --> 00:04:50,880

find out more about the mysterious red

124

00:04:55,110 --> 00:04:52,639

planet

125

00:04:57,590 --> 00:04:55,120

the juno mission also began at kennedy

126
00:04:59,749 --> 00:04:57,600
with an atlas v thundering spaceward on

127
00:05:01,909 --> 00:04:59,759
august 5th to place the four-ton

128
00:05:04,950 --> 00:05:01,919
spacecraft on a course for jupiter the

129
00:05:06,870 --> 00:05:04,960
largest planet in the solar system

130
00:05:08,629 --> 00:05:06,880
a pair of small spacecraft known as

131
00:05:10,710 --> 00:05:08,639
grail were sent to our closest

132
00:05:13,749 --> 00:05:10,720
astronomical neighbor the moon on a

133
00:05:15,110 --> 00:05:13,759
delta ii rocket on september 10th to map

134
00:05:18,870 --> 00:05:15,120
the lunar gravity field with

135
00:05:23,510 --> 00:05:21,189
from new programs being established to

136
00:05:25,510 --> 00:05:23,520
the refurbishment of center landmarks to

137
00:05:28,310 --> 00:05:25,520
the successful launches of innovative

138
00:05:30,870 --> 00:05:28,320

spacecraft kennedy remains at center

139

00:05:34,390 --> 00:05:30,880

stage in nasa's space exploration

140

00:05:36,070 --> 00:05:34,400

ambitions the road to space has always

141

00:05:38,230 --> 00:05:36,080

and always will