



1
00:00:08,600 --> 00:00:06,769
the Ares one program quickly is making

2
00:00:11,410 --> 00:00:08,610
its mark on the launch facilities at

3
00:00:14,390 --> 00:00:11,420
NASA's Kennedy Space Center in Florida

4
00:00:16,939 --> 00:00:14,400
using a gigantic crane and other smaller

5
00:00:19,400 --> 00:00:16,949
ones workers built and raised three

6
00:00:22,130 --> 00:00:19,410
lightning towers around launch pad 39b

7
00:00:25,640 --> 00:00:22,140
to protect the Ares one rocket from

8
00:00:27,679 --> 00:00:25,650
errant bolts of electricity because the

9
00:00:29,900 --> 00:00:27,689
Ares one rocket is much taller than the

10
00:00:33,380 --> 00:00:29,910
Space Shuttle the Lightning towers had

11
00:00:35,420 --> 00:00:33,390
to reach 600 feet into the sky they

12
00:00:37,280 --> 00:00:35,430
dwarf the fixed service structure built

13
00:00:39,110 --> 00:00:37,290

for the space shuttle and are also

14

00:00:42,860 --> 00:00:39,120

slightly taller than the Vehicle

15

00:00:44,330 --> 00:00:42,870

Assembly Building a few miles away the

16

00:00:46,310 --> 00:00:44,340

towers are similar in design to

17

00:00:48,500 --> 00:00:46,320

structures that protect other rockets

18

00:00:51,910 --> 00:00:48,510

and launch pads such as those built for

19

00:00:54,020 --> 00:00:51,920

the Atlas 5 and Delta for rockets

20

00:00:55,990 --> 00:00:54,030

lightning towers have been built for

21

00:00:58,520 --> 00:00:56,000

launch pads throughout NASA's history

22

00:01:00,799 --> 00:00:58,530

the launch towers for the Saturn five

23

00:01:04,009 --> 00:01:00,809

and the Space Shuttle are topped with

24

00:01:06,349 --> 00:01:04,019

single robust lightning rods

25

00:01:08,749 --> 00:01:06,359

workers still have to string thin wires

26

00:01:11,990 --> 00:01:08,759

between the tops of the towers at pad be

27

00:01:14,630 --> 00:01:12,000

to complete the protective Network the