1
00:00:05,460 --> 00:00:02,129
so this particular piece of hardware

2
00:00:07,380 --> 00:00:05,470
manufacturing is an SLS design but it

3
00:00:11,160 --> 00:00:07,390
will also be utilized to support the

4
00:00:13,080 --> 00:00:11,170
Orion eft-1 flight in 2014 we're able to

5
00:00:15,810 --> 00:00:13,090
take advantage of the fact that we have

6
00:00:18,240 --> 00:00:15,820
similar at least vehicles on the front

7
00:00:20,160 --> 00:00:18,250
end and design this adapter design at

8
00:00:21,750 --> 00:00:20,170
once and that provides for a cost

9
00:00:23,340 --> 00:00:21,760
savings basically to both programs

10
00:00:25,050 --> 00:00:23,350
they're not designing an adapter for

11
00:00:27,330 --> 00:00:25,060
their flight and us designing one for

12
00:00:29,519 --> 00:00:27,340
SLS up we're taking advantage of that

13
00:00:31,529 --> 00:00:29,529

providing this Hardware early it gives

14
00:00:35,279 --> 00:00:31,539
us a valuable flight experience on our

15
00:00:37,319 --> 00:00:35,289
hardware prior to either our 2017 test

16
00:00:40,079 --> 00:00:37,329
flight or our first manned mission in

17
00:00:41,729 --> 00:00:40,089
2021 a lot of programs take years and

18
00:00:43,979 --> 00:00:41,739
years and for us to have the opportunity

19
00:00:45,329 --> 00:00:43,989
to build the first piece of SLS flight

20
00:00:47,489 --> 00:00:45,339
hardware and provide it to another

21
00:00:49,379 --> 00:00:47,499
program that's exciting our team's

22
00:00:51,840 --> 00:00:49,389
excited they're excited to come to work

23
00:00:53,879 --> 00:00:51,850
every day and they're excited to have an

24
00:00:55,680 --> 00:00:53,889
opportunity to support someone else in

25
00:00:57,539 --> 00:00:55,690
moving toward our overall exploration

26
00:00:59,669 --> 00:00:57,549
goals we've been able to take an

27
00:01:02,430 --> 00:00:59,679
existing ring forging that was a fixed

28
00:01:04,799 --> 00:01:02,440
diameter and make a smaller ring out of

29
00:01:07,380 --> 00:01:04,809
it by cutting pieces out welding it

30
00:01:09,840 --> 00:01:07,390
together and essentially forming a

31
00:01:11,700 --> 00:01:09,850
smaller diameter ring from a large piece

32
00:01:15,210 --> 00:01:11,710
so by doing that there's going to be a

33
00:01:17,520 --> 00:01:15,220
cost savings and you know we'll develop

34
00:01:19,110 --> 00:01:17,530
our processes to create a much better

35
00:01:21,090 --> 00:01:19,120
flight article what's important is that

36
00:01:23,790 --> 00:01:21,100
we meet the schedule to support the

37
00:01:25,170 --> 00:01:23,800
Orion test flight we have several major

38
00:01:27,690 --> 00:01:25,180

milestones that we've already passed

39
00:01:30,480 --> 00:01:27,700
through so we're manufacturing the first

40
00:01:32,040 --> 00:01:30,490
units and you know we're going to beat

41
00:01:33,540 --> 00:01:32,050
the schedule we're going to deliver the

42
00:01:35,550 --> 00:01:33,550
hardware ahead of schedule we're going