
Huu Trinh
MSFC Lead Propulsion Subsystem Eng.,
Robotic Lunar Lander Dev. Project

1
00:00:17,109 --> 00:00:14,390
the project is using these tests to

2
00:00:18,470 --> 00:00:17,119
assess capability of existing qualified

3
00:00:20,230 --> 00:00:18,480
hardware

4
00:00:23,590 --> 00:00:20,240
leveraged from the missile defense

5
00:00:25,589 --> 00:00:23,600
agency and apply that toward a nasa

6
00:00:27,830 --> 00:00:25,599
spacecraft application

7
00:00:29,349 --> 00:00:27,840
we performed 20 hot fire tests in

8
00:00:30,470 --> 00:00:29,359
collaboration with pratt whitney

9
00:00:33,190 --> 00:00:30,480
rocketdyne

10
00:00:35,510 --> 00:00:33,200
and white sands test facility to support

11
00:00:37,750 --> 00:00:35,520
key design areas that the project

12
00:00:38,950 --> 00:00:37,760
identified and prioritized over the past

13
00:00:40,630 --> 00:00:38,960

year

14
00:00:42,549 --> 00:00:40,640
we were very pleased with the recent

15
00:00:45,750 --> 00:00:42,559
successful test of these lightweight

16
00:00:47,590 --> 00:00:45,760
thrusters and those results will be used

17
00:00:50,470 --> 00:00:47,600
for future design and development of

18
00:00:53,590 --> 00:00:50,480
propulsion systems for robotic landers

19
00:00:56,229 --> 00:00:53,600
on t test series we also test

20
00:00:58,869 --> 00:00:56,239
this structure with the new type of a

21
00:01:03,110 --> 00:00:58,879
propellant system

22
00:01:06,469 --> 00:01:03,120
freezing point

23
00:01:07,510 --> 00:01:06,479
so therefore it benefits

24
00:01:10,950 --> 00:01:07,520
for us

25
00:01:13,750 --> 00:01:10,960
on the energy saving for the lender

26
00:01:16,630 --> 00:01:13,760
and the data that we test is really very