



1
00:00:00,000 --> 00:00:07,031
MUSIC

2
00:00:08,790 --> 00:00:10,015
Well, it's Preliminary Design Review and

3
00:00:10,050 --> 00:00:12,550
primarily is a technical review to make

4
00:00:12,585 --> 00:00:14,278
sure that the design is acceptable at the

5
00:00:14,313 --> 00:00:16,430
appropriate level of maturity. But we

6
00:00:16,465 --> 00:00:18,206
also have to show that we are

7
00:00:18,241 --> 00:00:21,118
integrated programmatically.

8
00:00:21,153 --> 00:00:23,975
To me, it's, it's like a health check on the

9
00:00:24,010 --> 00:00:26,143
program. Umm, those of us that are

10
00:00:26,178 --> 00:00:28,382
working on the program, uh, we've got

11
00:00:28,417 --> 00:00:29,830
our head down. We're, we're doing our

12
00:00:29,865 --> 00:00:31,166
pieces, umm, and sometimes when

13
00:00:31,201 --> 00:00:32,366

you're working really close to things,

14

00:00:32,401 --> 00:00:35,406

you don't necessarily see everything.

15

00:00:35,441 --> 00:00:36,534

So this gives a opportunity for a fresh

16

00:00:36,569 --> 00:00:37,222

set of eyes to come in from our review

17

00:00:37,257 --> 00:00:38,199

team.

18

00:00:38,234 --> 00:00:40,015

I think part, part of PDR is to show, not

19

00:00:40,050 --> 00:00:41,631

only your selves, but to show the NASA

20

00:00:41,666 --> 00:00:43,254

community and the community at large

21

00:00:43,289 --> 00:00:45,902

that the program is ready to move onto

22

00:00:45,937 --> 00:00:47,870

the next level. There's so many moving

23

00:00:47,905 --> 00:00:49,414

parts. There's so many things going on

24

00:00:49,449 --> 00:00:50,615

at the agency.

25

00:00:50,650 --> 00:00:53,654

...then I have four major elements here

26
00:00:53,689 --> 00:00:55,494
I the program. Alex Priskos has boosters,

27
00:00:55,529 --> 00:00:58,902
Mike Kynard has engines, Tony Lavoie

28
00:00:58,937 --> 00:01:02,222
has stages and David Beaman has SPIO

29
00:01:02,257 --> 00:01:05,222
which includes things like the fairing,

30
00:01:05,257 --> 00:01:08,415
the adaptors and the interim upper

31
00:01:08,450 --> 00:01:09,895
stage.

32
00:01:09,930 --> 00:01:12,663
The agency has a certain set of internal

33
00:01:12,698 --> 00:01:14,479
requirements. We require of ourselves

34
00:01:14,514 --> 00:01:15,982
to review ourselves by an independent

35
00:01:16,017 --> 00:01:19,534
entity. In addition to that, there are

36
00:01:19,569 --> 00:01:22,142
some external stakeholders, some

37
00:01:22,177 --> 00:01:26,151
organizations external to the agency to

38
00:01:26,186 --> 00:01:30,030

include Congress and OMB, as well as

39

00:01:30,065 --> 00:01:35,646

the public, who require a good,

40

00:01:35,681 --> 00:01:37,806

thorough, truly independent look at

41

00:01:37,841 --> 00:01:41,631

these programs as they transition

42

00:01:41,666 --> 00:01:44,583

through their life cycle.

43

00:01:44,618 --> 00:01:48,158

The PDR in my opinion comes uh, the

44

00:01:48,193 --> 00:01:50,886

program comes alive in that uh, there's

45

00:01:50,921 --> 00:01:52,150

a lot of discussions. There's a lot of

46

00:01:52,185 --> 00:01:53,254

meetings across the board from

47

00:01:53,289 --> 00:01:54,526

technical costs, schedule, performance

48

00:01:54,561 --> 00:01:56,767

data, safety, human factors uh, that

49

00:01:56,802 --> 00:01:58,767

have been talked about for now a

50

00:01:58,802 --> 00:02:00,366

couple years, and this is really the first

51
00:02:00,401 --> 00:02:02,638
milestone where it really starts to come

52
00:02:02,673 --> 00:02:04,446
off the page and alive.

53
00:02:04,481 --> 00:02:07,271
You can feel that we're going to do this.

54
00:02:07,306 --> 00:02:09,327
The hardware is starting to come.

55
00:02:09,362 --> 00:02:12,694
The Orion hardware is getting ready for

56
00:02:12,729 --> 00:02:15,199
its first flight test down at the Kennedy

57
00:02:15,234 --> 00:02:18,070
Space Center, and you can see that this

58
00:02:18,105 --> 00:02:19,638
is all coming together, and there is no

59
00:02:19,673 --> 00:02:22,358
doubt in my mind that assuming that

60
00:02:22,393 --> 00:02:24,870
the budget can come like we, like we

61
00:02:24,905 --> 00:02:26,822
need it to come uh, within the plan that

62
00:02:26,857 --> 00:02:29,279
we have, we'll be flying Space Launch

63
00:02:29,314 --> 00:02:30,799

System and Orion in 2017 and we're

64

00:02:30,834 --> 00:02:34,246

going to get this country and the world

65

00:02:34,281 --> 00:02:36,646

exploring beyond low earth orbit very