



EXIT

T-11m00s		
Launch T ERRO	15:23:00	-00:21:00
EMCO1	15:26:34	-00:22:34
EMCO2	15:26:03	-00:22:03
EMCO2	16:04:05	-01:00:05
Separation	16:07:48	-01:03:48
Caberra Rise	16:13:31	-01:09:31
Transmitter On	16:13:48	-01:09:48
Madrid Rise	23:05:55	-08:01:55

1
00:00:13,100 --> 00:00:11,629
there was this really amazing moment at

2
00:00:15,260 --> 00:00:13,110
the end here when we were looking over

3
00:00:16,940 --> 00:00:15,270
the rover one last time and and making

4
00:00:19,220 --> 00:00:16,950
sure that that what we were seeing was

5
00:00:20,810 --> 00:00:19,230
good for flight it's that final moment

6
00:00:22,520 --> 00:00:20,820
you spend with the vehicle at last

7
00:00:24,800 --> 00:00:22,530
sanity check does everything look right

8
00:00:26,839 --> 00:00:24,810
is anything out of place is it really

9
00:00:29,540 --> 00:00:26,849
ready to fly because we're about to send

10
00:00:31,999 --> 00:00:29,550
our baby on a very long journey to go

11
00:00:35,420 --> 00:00:32,009
spend its life exploring the surface of

12
00:00:37,700 --> 00:00:35,430
Mars that's that's a big leap of faith

13
00:00:39,440 --> 00:00:37,710

to be able to hand off the vehicle they

14

00:00:41,390 --> 00:00:39,450

have a great team on the launch vehicle

15

00:00:44,450 --> 00:00:41,400

side and there they're ready to take

16

00:00:53,630 --> 00:00:44,460

care of her but we are we are definitely

17

00:00:59,280 --> 00:00:57,000

it's a very happy and sad day when you

18

00:01:01,740 --> 00:00:59,290

launcher it's very much i equated to say

19

00:01:03,930 --> 00:01:01,750

having your daughter get married we

20

00:01:06,150 --> 00:01:03,940

basically brought her into existence we

21

00:01:09,240 --> 00:01:06,160

powered her up we spoke to her and our

22

00:01:13,830 --> 00:01:09,250

team understands how she reacts her

23

00:01:15,480 --> 00:01:13,840

emotions her idiosyncrasies she's been

24

00:01:17,460 --> 00:01:15,490

ours all along and now i'm going to hand

25

00:01:19,800 --> 00:01:17,470

her off to the next team and they'll get

26
00:01:21,770 --> 00:01:19,810
to run her they've always been on deck

27
00:01:23,670 --> 00:01:21,780
waiting for us to get out of the way

28
00:01:28,260 --> 00:01:23,680
confirmation that would go for lunch at

29
00:01:30,810 --> 00:01:28,270
this time good as launch approaches of

30
00:01:33,120 --> 00:01:30,820
course the pressure does ratchet up and

31
00:01:34,650 --> 00:01:33,130
your start to worry did we think of

32
00:01:36,960 --> 00:01:34,660
everything that could possibly go wrong

33
00:01:39,990 --> 00:01:36,970
do we have all of our procedures ready

34
00:01:42,030 --> 00:01:40,000
there are a lot of what-ifs and you you

35
00:01:44,219 --> 00:01:42,040
question yourself and your team are you

36
00:01:45,840 --> 00:01:44,229
ready to handle this but ultimately you

37
00:01:48,359 --> 00:01:45,850
know that you've been trained to do this

38
00:01:49,890 --> 00:01:48,369

and you are ready to do this and you've

39

00:01:53,040 --> 00:01:49,900

got a great team around doing a great

40

00:01:54,900 --> 00:01:53,050

space craft ready to go and you ask if

41

00:01:57,660 --> 00:01:54,910

I'm nervous the answer is absolutely I'm

42

00:01:59,370 --> 00:01:57,670

nervous am i confident that she's going

43

00:02:02,310 --> 00:01:59,380

to go and she's going to be successful

44

00:02:05,160 --> 00:02:02,320

absolutely it's going to go and she'll

45

00:02:09,389 --> 00:02:05,170

be good the other day we closed the two

46

00:02:10,680 --> 00:02:09,399

hatches up on the Atlas and I was able

47

00:02:13,140 --> 00:02:10,690

to touch that I was able to touch the

48

00:02:14,820 --> 00:02:13,150

the rover when I disconnected the purge

49

00:02:16,770 --> 00:02:14,830

from the rad system and that was kind of

50

00:02:18,540 --> 00:02:16,780

an emotional thing you know almost turn

51
00:02:20,220 --> 00:02:18,550
around walked away from it and QA

52
00:02:21,330 --> 00:02:20,230
weaseled Alain Delon wait a minute this

53
00:02:23,010 --> 00:02:21,340
is the last time you're gonna be able to

54
00:02:24,780 --> 00:02:23,020
touch this thing and I'm like I really

55
00:02:26,940 --> 00:02:24,790
that's true so I'm over there stroking

56
00:02:29,040 --> 00:02:26,950
it like a little puppy and had to walk

57
00:02:31,140 --> 00:02:29,050
away from it and to realize that it's

58
00:02:33,420 --> 00:02:31,150
almost done and then it's ready to go

59
00:02:35,160 --> 00:02:33,430
you're almost kind of disappointed it's

60
00:02:36,960 --> 00:02:35,170
over with but you're ready to move on to

61
00:02:38,220 --> 00:02:36,970
something else and I'm ready to crack

62
00:02:41,220 --> 00:02:38,230
that champagne open when that thing

63
00:02:43,290 --> 00:02:41,230

lights and goes and we got to wait till

64

00:02:45,530 --> 00:02:43,300

august of next year to see it do its

65

00:02:50,650 --> 00:02:45,540

business and that's what it's all about

66

00:02:56,880 --> 00:02:53,710

is this golden couple of weeks that

67

00:02:59,470 --> 00:02:56,890

happens just before launch which is that

68

00:03:01,480 --> 00:02:59,480

we're really kind of done testing we're

69

00:03:03,520 --> 00:03:01,490

done encapsulating the vehicle it's it's

70

00:03:06,460 --> 00:03:03,530

not part of the launch vehicle providers

71

00:03:09,010 --> 00:03:06,470

job to to get it integrated and and

72

00:03:10,210 --> 00:03:09,020

mounted on top of the rocket and as far

73

00:03:12,610 --> 00:03:10,220

as the spacecraft goes it's kind of

74

00:03:15,790 --> 00:03:12,620

client when you see what a rocket really

75

00:03:19,510 --> 00:03:15,800

does in practice it's an amazing thing

76

00:03:22,450 --> 00:03:19,520

when it works the launch team is really

77

00:03:24,280 --> 00:03:22,460

excited so this is very difficult this

78

00:03:26,740 --> 00:03:24,290

morning launching something though the

79

00:03:31,600 --> 00:03:26,750

planet is really hard now you all we

80

00:03:35,710 --> 00:03:31,610

make it look ll if not rocketry is still

81

00:03:38,230 --> 00:03:35,720

a less-than-perfect business failures do

82

00:03:40,570 --> 00:03:38,240

happen you kinda have to make your peace

83

00:03:44,170 --> 00:03:40,580

with the notion it's like a suspension

84

00:03:46,000 --> 00:03:44,180

of disbelief meaning that in order to

85

00:03:48,510 --> 00:03:46,010

get through it you have to believe that

86

00:03:50,470 --> 00:03:48,520

rocket launches can only go perfectly

87

00:03:53,350 --> 00:03:50,480

the good news is almost always they