



1  
00:01:25,240 --> 00:01:23,710  
cool the better has broken it is going

2  
00:01:29,560 --> 00:01:25,250  
away from it get it open

3  
00:01:55,060 --> 00:01:29,570  
the TV the TV is broken

4  
00:02:18,380 --> 00:01:57,530  
and Jeff we're tracking it with the

5  
00:02:26,680 --> 00:02:18,390  
radar and we do read zero tension inside

6  
00:02:33,350 --> 00:02:32,060  
always got the brake on and we don't see

7  
00:02:38,660 --> 00:02:33,360  
any other movement it's just laying

8  
00:02:39,610 --> 00:02:38,670  
inside the boom copy all Andy and stand

9  
00:02:42,530 --> 00:02:39,620  
by

10  
00:02:45,140 --> 00:02:42,540  
ok Indian we want to completely verify

11  
00:03:19,400 --> 00:02:45,150  
you have a visual on the satellite and

12  
00:03:28,509 --> 00:03:19,410  
the away from the shuttle we have an

13  
00:03:42,199 --> 00:03:28,519

image from you you see the picture

14

00:03:44,060 --> 00:03:42,209

Hermitage now unfortunately in all the

15

00:03:50,900 --> 00:03:44,070

excitement somebody bumped the camera

16

00:03:56,030 --> 00:03:50,910

and we lost it ok the view that we had

17

00:03:59,449 --> 00:03:56,040

of it as it was drifting away and we got

18

00:04:01,580 --> 00:03:59,459

it for emitted and so before sunset

19

00:04:08,929 --> 00:04:01,590

yes sir well those are some tethered

20

00:04:10,759 --> 00:04:08,939

dynamics we did not want to see we have

21

00:04:12,490 --> 00:04:10,769

demonstrated that you can generate a lot

22

00:04:14,809 --> 00:04:12,500

of electricity with tether and

23

00:04:17,029 --> 00:04:14,819

fortunately we've also demonstrated that

24

00:04:21,680 --> 00:04:17,039

you can use cutters to launch a

25

00:04:23,230 --> 00:04:21,690

satellite at much higher orbit and phyto

26

00:04:30,740 --> 00:04:23,240

concur that was one of our objectives

27

00:04:33,260 --> 00:04:30,750

two of our objectives at least in fact

28

00:04:47,399 --> 00:04:33,270

we can see it picked up about an 80 foot

29

00:09:14,410 --> 00:04:54,010

okay wedding and I guess as far as being

30

00:09:36,060 --> 00:09:18,980

again it looks like it's going in copy

31

00:09:36,070 --> 00:10:38,130

as for posing visually Roger we see it

32

00:13:11,180 --> 00:10:41,430

two minutes to the ceiling back with you

33

00:13:58,070 --> 00:13:13,800

that's a beautiful shot of an amazing

34

00:14:02,630 --> 00:14:01,340

commander Amy Witte from WHNT TV but

35

00:14:06,740 --> 00:14:02,640

have played the devil's advocate here

36

00:14:08,810 --> 00:14:06,750

how would you answer critics who say 443

37

00:14:10,579 --> 00:14:08,820

million dollars is a lot to lose and

38

00:14:16,880 --> 00:14:10,589

space research should be curved

39

00:14:18,769 --> 00:14:16,890

how would you respond to that I guess I

40

00:14:24,069 --> 00:14:18,779

would say that we need to take a hard

41

00:14:34,610 --> 00:14:26,509

doesn't have disappointments come along

42

00:14:37,190 --> 00:14:34,620

the way because every time we do

43

00:14:38,810 --> 00:14:37,200

something we learn something I don't

44

00:14:41,389 --> 00:14:38,820

think there's a research program around

45

00:14:44,630 --> 00:14:41,399

that doesn't have its types of failures

46

00:14:47,690 --> 00:14:44,640

and connect can have some of that same

47

00:14:50,660 --> 00:14:47,700

criticism applied to it but we can't

48

00:14:54,350 --> 00:14:50,670

learn unless you're trying so I have not

49

00:14:56,150 --> 00:14:54,360

lost money my excitement about what we

50

00:15:01,250 --> 00:14:56,160

try to do appear in space so have I lost

51  
00:15:03,490 --> 00:15:01,260  
mine yeah I know do I think it is it has

52  
00:15:09,019 --> 00:15:03,500  
really lost its parent I think it is a

53  
00:15:12,110 --> 00:15:09,029  
tremendously commendable and worthwhile

54  
00:15:14,269 --> 00:15:12,120  
goal for us to keep on doing this type

55  
00:15:17,569 --> 00:15:14,279  
of research up here we haven't seen the

56  
00:15:25,810 --> 00:15:17,579  
last of tethers I hope and we just need

57  
00:15:29,960 --> 00:15:28,100  
this is Marsha Dunn of The Associated

58  
00:15:32,150 --> 00:15:29,970  
Press for dr. Hoffman

59  
00:15:34,100 --> 00:15:32,160  
I'm warning if you could describe a

60  
00:15:36,860 --> 00:15:34,110  
little more your feelings of personal

61  
00:15:39,260 --> 00:15:36,870  
loss as you watch the tether cut and as

62  
00:15:55,160 --> 00:15:39,270  
you saw years and years of work just go

63  
00:15:57,740 --> 00:15:55,170

out into nothingness we got about half

64

00:16:01,280 --> 00:15:57,750

way there in terms of being able to

65

00:16:03,199 --> 00:16:01,290

deploy the satellite and to just whet

66

00:16:06,530 --> 00:16:03,209

people's appetite for the incredible

67

00:16:08,060 --> 00:16:06,540

scientific investigations that could be

68

00:16:10,850 --> 00:16:08,070

covered

69

00:16:12,470 --> 00:16:10,860

scientists have lost a lot and I think

70

00:16:15,680 --> 00:16:12,480

we feel for them and we were really

71

00:16:17,600 --> 00:16:15,690

looking forward to demonstrating that we

72

00:16:19,160 --> 00:16:17,610

could actually retrieve a satellite from

73

00:16:20,630 --> 00:16:19,170

20 kilometres which of course is

74

00:16:22,190 --> 00:16:20,640

something that has never been done and

75

00:16:25,310 --> 00:16:22,200

we've put an incredible amount of work

76

00:16:35,740 --> 00:16:25,320

into that and those of us here will

77

00:16:41,060 --> 00:16:38,060

when you're working hard to try to

78

00:16:45,740 --> 00:16:41,070

develop new ideas new science new

79

00:16:48,350 --> 00:16:45,750

technology you have setbacks you know

80

00:16:50,630 --> 00:16:48,360

how many how many things did Thomas

81

00:16:53,050 --> 00:16:50,640

Edison try it before he finally found a

82

00:16:57,290 --> 00:16:53,060

filament to make an electric light bulb

83

00:16:59,870 --> 00:16:57,300

and I want to think back to SPF 46 when

84

00:17:02,630 --> 00:16:59,880

we obviously also had a disappointment

85

00:17:04,670 --> 00:17:02,640

and one question was asked to us about

86

00:17:07,630 --> 00:17:04,680

you know what the purpose is why we

87

00:17:10,699 --> 00:17:07,640

should keep doing this and at that time

88

00:17:13,880 --> 00:17:10,709

what I did was to take out something

89

00:17:18,829 --> 00:17:13,890

that we brought on board and that is a

90

00:17:20,540 --> 00:17:18,839

copy of a book by Arthur Clark this is a

91

00:17:24,170 --> 00:17:20,550

book where he describes a very

92

00:17:26,510 --> 00:17:24,180

futuristic view of an application of

93

00:17:30,080 --> 00:17:26,520

tethers where some day that maybe a

94

00:17:33,140 --> 00:17:30,090

tether system that would lead to a space

95

00:17:35,810 --> 00:17:33,150

elevator going from or normally up to

96

00:17:38,870 --> 00:17:35,820

geosynchronous orbit tethers have the

97

00:17:43,040 --> 00:17:38,880

potential to revolutionize a lot of ways

98

00:17:45,320 --> 00:17:43,050

we operate in space nobody said it's

99

00:17:47,420 --> 00:17:45,330

gonna be easy I would have hoped that

100

00:17:49,520 --> 00:17:47,430

after two flights we would have gotten a

101

00:17:53,270 --> 00:17:49,530

little farther than we got this time and

102

00:17:55,130 --> 00:17:53,280

I don't want to try to pretend that that

103

00:17:58,190 --> 00:17:55,140

we're not pretty bitterly disappointed

104

00:18:00,140 --> 00:17:58,200

but nevertheless you know human

105

00:18:02,630 --> 00:18:00,150

lifetimes are stored in the big scheme

106

00:18:04,870 --> 00:18:02,640

of things and hopefully these dreams

107

00:18:07,250 --> 00:18:04,880

will someday come true and our

108

00:18:10,430 --> 00:18:07,260

successors I hope will look back to the

109

00:18:13,190 --> 00:18:10,440

things that we've done and at least they

110

00:18:15,350 --> 00:18:13,200

can say that we hope to point the way

111

00:18:16,310 --> 00:18:15,360

and if that's so then I think they'll