



1  
00:00:15,589 --> 00:00:12,870  
if i was to go from the space station

2  
00:00:19,109 --> 00:00:15,599  
then i would want to go out in the space

3  
00:00:22,150 --> 00:00:19,119  
and suit and want to work on it

4  
00:00:26,310 --> 00:00:22,160  
i'd like to move around a lot and do

5  
00:00:30,870 --> 00:00:28,470  
i would first have fun and then i would

6  
00:00:32,870 --> 00:00:30,880  
go start research on like different like

7  
00:00:34,470 --> 00:00:32,880  
plants that see how space affects the

8  
00:00:36,229 --> 00:00:34,480  
plants

9  
00:00:37,990 --> 00:00:36,239  
i would like to actually go out there

10  
00:00:38,869 --> 00:00:38,000  
and help hook up and

11  
00:00:39,990 --> 00:00:38,879  
like

12  
00:00:42,310 --> 00:00:40,000  
build it

13  
00:00:44,389 --> 00:00:42,320

technically this mission is going to add

14

00:00:46,470 --> 00:00:44,399

the capability to provide more power to

15

00:00:47,990 --> 00:00:46,480

the space station to be able to have

16

00:00:49,430 --> 00:00:48,000

more power we have to have more solar

17

00:00:52,150 --> 00:00:49,440

arrays we have to have a place to put

18

00:00:54,229 --> 00:00:52,160

them so extending that central truss

19

00:00:55,670 --> 00:00:54,239

segment out and attaching those solar

20

00:00:57,189 --> 00:00:55,680

arrays will be critical for the future

21

00:00:59,110 --> 00:00:57,199

of the space station

22

00:01:00,869 --> 00:00:59,120

well the s5 truss actually we call it

23

00:01:03,910 --> 00:01:00,879

stubby it's it's a it's a little

24

00:01:06,310 --> 00:01:03,920

structural piece and it uh

25

00:01:08,710 --> 00:01:06,320

it goes on the end of the truss that's

26  
00:01:12,070 --> 00:01:08,720  
already up there and provides the next

27  
00:01:13,590 --> 00:01:12,080  
uh structure for attaching the very last

28  
00:01:22,230 --> 00:01:13,600  
piece on the end of the truss which

29  
00:01:27,670 --> 00:01:24,550  
it's going to be a really exciting space

30  
00:01:29,270 --> 00:01:27,680  
walk for us we're both highly trained

31  
00:01:30,870 --> 00:01:29,280  
space walkers and we've both been to

32  
00:01:32,950 --> 00:01:30,880  
space but neither one of us has actually

33  
00:01:35,590 --> 00:01:32,960  
done a space walk before so you can

34  
00:01:37,830 --> 00:01:35,600  
imagine opening the hatch of the airlock

35  
00:01:40,469 --> 00:01:37,840  
sticking your head out looking down at

36  
00:01:42,950 --> 00:01:40,479  
the earth below you traveling 25 times

37  
00:01:45,910 --> 00:01:42,960  
the speed of sound reaching out and

38  
00:01:48,230 --> 00:01:45,920

handrail by handrail moving out to the

39

00:01:50,469 --> 00:01:48,240

extreme limit on the starboard side of

40

00:01:53,270 --> 00:01:50,479

the space station i would say i am the

41

00:01:56,469 --> 00:01:53,280

coordinator i will be the person inside

42

00:01:58,469 --> 00:01:56,479

the iv the intravehicular crew member

43

00:02:00,389 --> 00:01:58,479

i'm kind of the quarterback in a way i'm

44

00:02:02,149 --> 00:02:00,399

keeping the big picture i'm keeping

45

00:02:17,670 --> 00:02:02,159

track of two different crew members

46

00:02:21,589 --> 00:02:19,270

we're going to be doing a remove and

47

00:02:23,990 --> 00:02:21,599

replacement of an old cmg a control

48

00:02:25,190 --> 00:02:24,000

moment gyro and we're bringing up a new

49

00:02:30,309 --> 00:02:25,200

cmg

50

00:02:31,990 --> 00:02:30,319

attitude control it saves the space

51  
00:02:34,790 --> 00:02:32,000  
station from having to use fuel they use

52  
00:02:36,550 --> 00:02:34,800  
the cmgs instead for attitude control

53  
00:02:39,270 --> 00:02:36,560  
and right now i believe they have three

54  
00:02:40,790 --> 00:02:39,280  
functioning cmgs which is well capable

55  
00:02:42,309 --> 00:02:40,800  
of operating on those but obviously we

56  
00:02:44,229 --> 00:02:42,319  
want the fourth one in case another one

57  
00:02:45,910 --> 00:02:44,239  
fails or has problems

58  
00:02:48,390 --> 00:02:45,920  
but i think what's really exciting about

59  
00:02:51,270 --> 00:02:48,400  
the space station program is the station

60  
00:02:53,830 --> 00:02:51,280  
itself is not only a research platform

61  
00:02:55,270 --> 00:02:53,840  
it's a technology development platform

62  
00:02:57,270 --> 00:02:55,280  
all these issues that we face for the

63  
00:02:58,869 --> 00:02:57,280

space station are similar issues that

64

00:03:01,030 --> 00:02:58,879

we're going to face on the moon and we

65

00:03:03,030 --> 00:03:01,040

can develop new technologies for

66

00:03:04,869 --> 00:03:03,040

habitability living and working in space

67

00:03:06,949 --> 00:03:04,879

test them out on the space station and