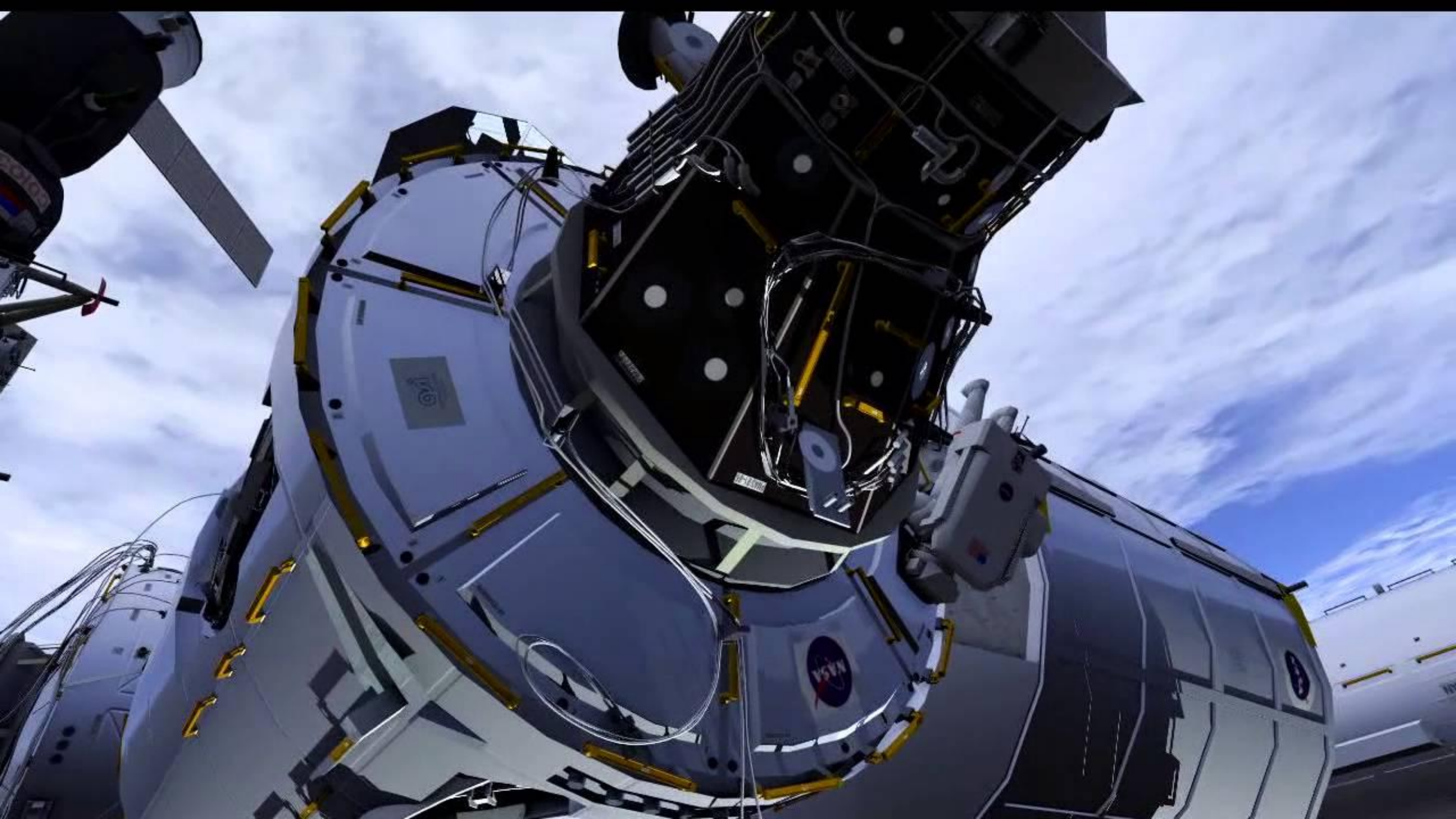

1
00:00:03,710 --> 00:00:02,960
so we're starting by zooming in on the

2
00:00:06,110 --> 00:00:03,720
airlock

3
00:00:10,820 --> 00:00:06,120
this is where eveyone and ev2 will

4
00:00:13,070 --> 00:00:10,830
egress to begin the e VA eveyone will

5
00:00:15,740 --> 00:00:13,080
egress first he'll be the one wearing

6
00:00:18,349 --> 00:00:15,750
the red stripes and he'll bring some

7
00:00:21,560 --> 00:00:18,359
tools and equipment for the SSU R&R with

8
00:00:23,990 --> 00:00:21,570
him it'll be followed by ev2 tim peake

9
00:00:26,359 --> 00:00:24,000
and the white stripes tim peake will be

10
00:00:29,660 --> 00:00:26,369
carrying their spare SSU out to the work

11
00:00:31,339 --> 00:00:29,670
site before the crew leave the vicinity

12
00:00:32,990 --> 00:00:31,349
of the airlock they'll takes a few

13
00:00:34,490 --> 00:00:33,000

moments to attempt stow some other tools

14
00:00:36,410 --> 00:00:34,500
and equipment for subsequent evie a

15
00:00:38,959 --> 00:00:36,420
tasks on the outside the airlock where

16
00:00:39,560 --> 00:00:38,969
they're easily accessible once that's

17
00:00:41,330 --> 00:00:39,570
complete

18
00:00:43,400 --> 00:00:41,340
eveyone will translate to the starboard

19
00:00:45,619 --> 00:00:43,410
c2 cart where he will retrieve a foot

20
00:00:51,229 --> 00:00:45,629
restraint which he'll use for worksite

21
00:00:53,360 --> 00:00:51,239
stabilization at the SSU once he has

22
00:00:55,040 --> 00:00:53,370
retrieved the foot restraint he will

23
00:00:56,959 --> 00:00:55,050
connect the safety tether anchors for

24
00:00:59,479 --> 00:00:56,969
both crew members to handrails on the

25
00:01:01,340 --> 00:00:59,489
end of the s-1 truss segment connecting

26
00:01:02,959 --> 00:01:01,350
the safety tethers anchors out here will

27
00:01:05,420 --> 00:01:02,969
enable them to reach all the way to the

28
00:01:09,170 --> 00:01:05,430
SSU worksite which is on the far end of

29
00:01:12,320 --> 00:01:09,180
the truss eveyone will then translate to

30
00:01:13,929 --> 00:01:12,330
the SSU worksite where he will install

31
00:01:16,310 --> 00:01:13,939
and set up the foot restraint

32
00:01:20,120 --> 00:01:16,320
positioning it to give him good access

33
00:01:22,190 --> 00:01:20,130
to the SSU itself once that's complete

34
00:01:23,420 --> 00:01:22,200
he'll stow the tools and equipment he

35
00:01:29,630 --> 00:01:23,430
brought with him where they're easily

36
00:01:34,880 --> 00:01:29,640
accessible meanwhile evie 2 will also

37
00:01:36,710 --> 00:01:34,890
translate to the SSU worksite and when

38
00:01:40,130 --> 00:01:36,720

he arrives he will work to stow the

39
00:01:42,710 --> 00:01:40,140
spare SSU where it's within easy reach

40
00:01:45,109 --> 00:01:42,720
for the R&R he'll then position himself

41
00:01:48,020 --> 00:01:45,119
where he can get good visuals on the SSU

42
00:01:49,749 --> 00:01:48,030
worksite and easily access the tools and

43
00:01:52,609 --> 00:01:49,759
equipment that have been brought out

44
00:01:55,310 --> 00:01:52,619
eveyone will ingress the foot restraint

45
00:01:59,600 --> 00:01:55,320
and verify that he's in a good position

46
00:02:02,389 --> 00:01:59,610
for the SSU our and our crew will wait

47
00:02:05,780 --> 00:02:02,399
for the beginning of night and when that

48
00:02:07,969 --> 00:02:05,790
occurs they'll begin the SSU R&R eveyone

49
00:02:11,150 --> 00:02:07,979
will remove the failed SSU and present

50
00:02:13,320 --> 00:02:11,160
it to ev2 for inspection then stow it on

51
00:02:15,930 --> 00:02:13,330
his BRT so it's out of the way

52
00:02:19,580 --> 00:02:15,940
as the crew retrieves the spare SSU from

53
00:02:28,070 --> 00:02:23,550
eveyone will then install the spare SSU

54
00:02:33,660 --> 00:02:30,900
once that's complete the crew will work

55
00:02:36,060 --> 00:02:33,670
together to put the failed SSU back in

56
00:02:39,120 --> 00:02:36,070
the bag that the spare SSU originally

57
00:02:40,550 --> 00:02:39,130
came out in which Evy - will carry back

58
00:02:42,960 --> 00:02:40,560
to the airlock

59
00:02:45,210 --> 00:02:42,970
eveyone will work to clean up the work

60
00:02:47,220 --> 00:02:45,220
site and then we'll follow Evie - back

61
00:02:50,100 --> 00:02:47,230
to the airlock dropping off the foot

62
00:02:52,020 --> 00:02:50,110
restraint on his way Evie - will place

63
00:02:55,380 --> 00:02:52,030

the failed SSU back inside the airlock

64
00:02:57,960 --> 00:02:55,390
and be joined by eveyone eveyone will

65
00:03:00,240 --> 00:02:57,970
chain trade out some equipment and then

66
00:03:03,300 --> 00:03:00,250
begin his translation to the NPV work

67
00:03:06,180 --> 00:03:03,310
site for the next task on the way to

68
00:03:08,970 --> 00:03:06,190
this work site eveyone will stop and

69
00:03:11,310 --> 00:03:08,980
drop a cable on the support side of z1

70
00:03:13,530 --> 00:03:11,320
it'll be waiting here for Evie - to

71
00:03:15,420 --> 00:03:13,540
connect later in the Evie a then eveyone

72
00:03:17,520 --> 00:03:15,430
will continue to the NPV this is a non

73
00:03:21,000 --> 00:03:17,530
propulsive vent work site will he'll be

74
00:03:23,460 --> 00:03:21,010
installing this nan for pulse event in

75
00:03:25,620 --> 00:03:23,470
order to install the NPV he will first

76
00:03:27,570 --> 00:03:25,630
remove a cover plate that was installed

77
00:03:31,530 --> 00:03:27,580
on the same location where the NPV goes

78
00:03:34,259 --> 00:03:31,540
and then place the end PV on the end of

79
00:03:36,630 --> 00:03:34,269
node 3 here we have some NBL video of

80
00:03:39,090 --> 00:03:36,640
the crew practicing this task you can

81
00:03:41,280 --> 00:03:39,100
see that the clearance between node 3

82
00:03:44,479 --> 00:03:41,290
and p.m. M is very tight making this a

83
00:03:47,850 --> 00:03:44,489
challenging work site for the Evie crew

84
00:03:50,070 --> 00:03:47,860
once installation of the NPV is complete

85
00:03:52,590 --> 00:03:50,080
eveyone will translate to the aft side

86
00:03:56,490 --> 00:03:52,600
of the vehicle and specifically to the

87
00:03:59,940 --> 00:03:56,500
aft side of p.m. a3 here he will release

88
00:04:01,949 --> 00:03:59,950

a p.m. a3 launch restraint bracket this

89
00:04:03,710 --> 00:04:01,959
will free some cables which will be

90
00:04:06,509 --> 00:04:03,720
disconnected on a subsequent EBA

91
00:04:09,289 --> 00:04:06,519
allowing the p.m. a3 to be relocated to

92
00:04:12,300 --> 00:04:09,299
an alternate location on space station

93
00:04:14,130 --> 00:04:12,310
once this is complete eveyone will

94
00:04:16,199 --> 00:04:14,140
translate back to the airlock where he

95
00:04:18,630 --> 00:04:16,209
will drop off the tools and equipment he

96
00:04:20,729 --> 00:04:18,640
used for the NPV and pick up an empty

97
00:04:23,460 --> 00:04:20,739
bag which you will use for the retrieval

98
00:04:26,320 --> 00:04:23,470
of the cp9 luminaire so that's camera

99
00:04:28,300 --> 00:04:26,330
port 9 the light has

100
00:04:31,420 --> 00:04:28,310
some burned-out light bulbs so he'll

101
00:04:33,159 --> 00:04:31,430
translate out to this worksite I've

102
00:04:36,430 --> 00:04:33,169
retrieved the luminaire which you can

103
00:04:38,890 --> 00:04:36,440
see here in white and he'll place that

104
00:04:43,390 --> 00:04:38,900
luminaire in the bag he brought out with

105
00:04:45,610 --> 00:04:43,400
him once he has retrieved the Lehmann

106
00:04:47,589 --> 00:04:45,620
air he'll do a few cleanup tasks at the

107
00:04:53,020 --> 00:04:47,599
worksite and then translate back to the

108
00:04:56,290 --> 00:04:53,030
airlock meanwhile evey two will have

109
00:04:58,570 --> 00:04:56,300
retrieved the ID a cable bag so this bag

110
00:05:01,330 --> 00:04:58,580
contains a cable which hat which will be

111
00:05:04,899 --> 00:05:01,340
used to provide power and data to the ID

112
00:05:06,670 --> 00:05:04,909
a an international docking adaptor Eevee

113
00:05:09,670 --> 00:05:06,680

two will translate to the nadir side of

114
00:05:11,980 --> 00:05:09,680
the lab attempt stow the cable bag and

115
00:05:14,290 --> 00:05:11,990
begin routing the cable first he'll

116
00:05:17,670 --> 00:05:14,300
route a leg of it aft to node one and

117
00:05:20,529 --> 00:05:17,680
connect on the nadir side of node one

118
00:05:22,570 --> 00:05:20,539
he'll then retrieved the epoch MDM leg

119
00:05:25,839 --> 00:05:22,580
of this cable and route it zenith on the

120
00:05:28,689 --> 00:05:25,849
lab and then port across the vehicle as

121
00:05:30,909 --> 00:05:28,699
you can see from this flyby one of the

122
00:05:32,529 --> 00:05:30,919
key challenges Eevee to Tim Peake will

123
00:05:34,269 --> 00:05:32,539
face during this portion of the EBA will

124
00:05:35,890 --> 00:05:34,279
be the tightness of the translation path

125
00:05:39,899 --> 00:05:35,900
and the number of other cables that

126
00:05:42,550 --> 00:05:39,909
present snag hazards for him as he goes

127
00:05:45,309 --> 00:05:42,560
once he is completed routing the cable

128
00:05:48,430 --> 00:05:45,319
to the port side of z1 he will connect

129
00:05:50,950 --> 00:05:48,440
it to the white r2 the epoch mbm cable

130
00:05:54,490 --> 00:05:50,960
which eveyone left for him earlier on

131
00:05:57,879 --> 00:05:54,500
the e VA he'll also make two connections

132
00:05:59,619 --> 00:05:57,889
of the epic MDM cable two pigtails that

133
00:06:02,050 --> 00:05:59,629
were left out on another cable called

134
00:06:05,309 --> 00:06:02,060
the MLM Ethernet cable on a previous e

135
00:06:12,909 --> 00:06:08,379
once this is complete he will return to

136
00:06:15,670 --> 00:06:12,919
the ID a cable bag and retrieved the

137
00:06:17,439 --> 00:06:15,680
third and final leg of the ID a cable

138
00:06:20,070 --> 00:06:17,449

which he'll route forward along the lab

139
00:06:22,420 --> 00:06:20,080
and then zenith and forward on node two

140
00:06:25,209 --> 00:06:22,430
leaving it for eventual connection to

141
00:06:27,010 --> 00:06:25,219
the International docking adaptor once

142
00:06:28,600 --> 00:06:27,020
this is complete he will clean up his