МИШЕНЬ
СОЮЗ
ЭНЕРГИЯ

1
00:00:00,850 --> 00:00:06,470
[Music]

2
00:00:09,910 --> 00:00:07,990
good morning from the international

3
00:00:11,910 --> 00:00:09,920
space station flight control room here

4
00:00:13,990 --> 00:00:11,920
at the johnson space center in houston

5
00:00:16,070 --> 00:00:14,000
texas where the flight control team is

6
00:00:17,510 --> 00:00:16,080
working in tandem this morning with

7
00:00:19,429 --> 00:00:17,520
their russian counterparts at the

8
00:00:21,590 --> 00:00:19,439
mission control center

9
00:00:24,390 --> 00:00:21,600
overseeing the relocation of the soyuz

10
00:00:26,310 --> 00:00:24,400
ms-17 spacecraft from the rassvet module

11
00:00:28,390 --> 00:00:26,320
located on the earth-facing port of the

12
00:00:39,190 --> 00:00:28,400
russian segment of the station to the

13
00:00:43,910 --> 00:00:41,750

inside the soyuz ms-17 which will be the

14
00:00:46,069 --> 00:00:43,920
spacecraft in action today is nasa

15
00:00:48,310 --> 00:00:46,079
flight engineer kate rubins

16
00:00:50,950 --> 00:00:48,320
soyuz commander sergey rizhikov and

17
00:00:52,790 --> 00:00:50,960
russian flight engineer sergey kuzkov

18
00:00:54,869 --> 00:00:52,800
they are strapped into their seats in

19
00:00:56,790 --> 00:00:54,879
their sokol launch and entry suits ready

20
00:01:02,310 --> 00:00:56,800
to take a short spin around the station

21
00:01:06,149 --> 00:01:04,149
for the undocking fly around and

22
00:01:08,550 --> 00:01:06,159
re-docking today rijakov will be doing

23
00:01:10,390 --> 00:01:08,560
all of the driving he will manually fly

24
00:01:12,469 --> 00:01:10,400
the soyuz away from the station to a

25
00:01:15,109 --> 00:01:12,479
position above the poisk module for the

26
00:01:22,469 --> 00:01:15,119
re-docking which is scheduled for 1207

27
00:01:26,469 --> 00:01:24,230
the relocation today will free up the

28
00:01:29,910 --> 00:01:26,479
rossviet port for the docking of another

29
00:01:32,390 --> 00:01:29,920
soyuz vehicle designated the ms-18 which

30
00:01:34,789 --> 00:01:32,400
will carry three expedition 65 crew

31
00:01:37,190 --> 00:01:34,799
members to the station next month

32
00:01:39,670 --> 00:01:37,200
nasa's mark vande high and oleg novinsky

33
00:01:41,749 --> 00:01:39,680
and piotr dubrov of rose cosmos are

34
00:01:44,069 --> 00:01:41,759
scheduled to launch to the station

35
00:01:46,789 --> 00:01:44,079
friday april 9th from the baikonur

36
00:01:50,469 --> 00:01:46,799
cosmodrome in kazakhstan

37
00:01:52,310 --> 00:01:50,479
age 86 is in work

38
00:01:54,469 --> 00:01:52,320

and half a world away at the russian

39
00:01:57,030 --> 00:01:54,479
mission control center on the outskirts

40
00:01:58,870 --> 00:01:57,040
of moscow in the town of corlyoff are

41
00:02:08,840 --> 00:01:58,880
russian flight controllers in control of

42
00:02:08,850 --> 00:02:16,390
[Music]

43
00:02:20,229 --> 00:02:17,990
running through some of the milestones

44
00:02:22,630 --> 00:02:20,239
today just a short time from now at 11

45
00:02:24,470 --> 00:02:22,640
37 a.m central time the command will be

46
00:02:25,990 --> 00:02:24,480
issued to initiate the opening of the

47
00:02:28,630 --> 00:02:26,000
hooks holding the soyuz to the

48
00:02:30,790 --> 00:02:28,640
earth-facing side of the rossviet module

49
00:02:32,630 --> 00:02:30,800
where the soyuz ms-17 vehicle has been

50
00:02:35,190 --> 00:02:32,640
parked since rubens friezakov and

51
00:02:37,670 --> 00:02:35,200
kutzwertzkoff arrived on october 14th

52
00:02:40,390 --> 00:02:37,680
after their launch

53
00:02:42,309 --> 00:02:40,400
90 seconds later at 11 38 the command

54
00:02:44,229 --> 00:02:42,319
will be issued for hooks to open and

55
00:02:46,550 --> 00:02:44,239
that's when springs on both sides of the

56
00:02:48,869 --> 00:02:46,560
interface between soyuz and rassvet push

57
00:02:51,110 --> 00:02:48,879
off one another and will have physical

58
00:02:53,589 --> 00:02:51,120
separation

59
00:02:55,350 --> 00:02:53,599
i am confirming

60
00:02:58,229 --> 00:02:55,360
four minutes after physical separation

61
00:03:00,309 --> 00:02:58,239
at 11 42 moving at a rate of two-tenths

62
00:03:02,149 --> 00:03:00,319
of a meter per second the soyuz will

63
00:03:03,190 --> 00:03:02,159

reach a distance of 40 meters from the

64
00:03:04,630 --> 00:03:03,200
station

65
00:03:06,070 --> 00:03:04,640
at that point there will be a couple of

66
00:03:07,509 --> 00:03:06,080
minutes of station keeping where the

67
00:03:09,990 --> 00:03:07,519
russian mission control center will be

68
00:03:11,830 --> 00:03:10,000
in contact with rijakov to make sure all

69
00:03:15,670 --> 00:03:11,840
of the systems on the soyuz are okay

70
00:03:17,430 --> 00:03:15,680
before the fly around at 11 45.

71
00:03:19,350 --> 00:03:17,440
the fly around will take about 13

72
00:03:21,270 --> 00:03:19,360
minutes to complete going from nader to

73
00:03:23,190 --> 00:03:21,280
zenith and for the soyuz to properly

74
00:03:24,949 --> 00:03:23,200
align itself with the poisk module on

75
00:03:26,710 --> 00:03:24,959
the space-facing side on the russian

76
00:03:29,110 --> 00:03:26,720
segment of the station

77
00:03:30,470 --> 00:03:29,120
then around 11 58 the soyuz will park

78
00:03:32,149 --> 00:03:30,480
itself to allow russian flight

79
00:03:33,830 --> 00:03:32,159
controllers to assess the alignment of

80
00:03:35,350 --> 00:03:33,840
the vehicle to the poisk module's

81
00:03:37,270 --> 00:03:35,360
docking port

82
00:03:38,869 --> 00:03:37,280
again at a distance of about 40 meters

83
00:03:42,949 --> 00:03:38,879
before the go is given for final

84
00:03:47,670 --> 00:03:45,030
that final approach initiation will come

85
00:03:49,430 --> 00:03:47,680
at 1201 pm central time they'll close in

86
00:03:51,190 --> 00:03:49,440
on the poisk module at one tenth of a

87
00:03:58,789 --> 00:03:51,200
meter per second for a docking six

88
00:04:02,710 --> 00:04:00,390

and once the hooks are closed and the

89
00:04:04,789 --> 00:04:02,720
port relocation is complete the crew and

90
00:04:05,670 --> 00:04:04,799
the soyuz will conduct a series of leak

91
00:04:07,110 --> 00:04:05,680
checks

92
00:04:09,190 --> 00:04:07,120
they plan to open up the hatch to the

93
00:04:11,350 --> 00:04:09,200
international space station around 2 30

94
00:04:13,509 --> 00:04:11,360
pm central time they'll remove their

95
00:04:25,590 --> 00:04:13,519
spacesuits and the soyuz will be placed

96
00:04:25,600 --> 00:04:31,270
r9 command for the video camera

97
00:04:31,280 --> 00:04:37,350
completed our 8th command is

98
00:04:43,350 --> 00:04:39,909
armed r 9

99
00:04:49,909 --> 00:04:43,360
in work r8

100
00:04:49,919 --> 00:04:54,550
and on input 2 uh the

101
00:05:22,070 --> 00:04:56,790
tv format

102
00:05:24,950 --> 00:05:23,510
overlay

103
00:05:31,830 --> 00:05:24,960
in place

104
00:05:31,840 --> 00:05:35,510
activation mode

105
00:05:40,390 --> 00:05:37,830
at this hour nasa flight engineer kate

106
00:05:41,909 --> 00:05:40,400
rubins soyuz commander sergey rizhikov

107
00:05:43,990 --> 00:05:41,919
and russian flight engineer sergey

108
00:05:45,270 --> 00:05:44,000
kudspertzkov are strapped into their

109
00:05:47,510 --> 00:05:45,280
seats in their so-called launch and

110
00:06:04,309 --> 00:05:47,520
entry suits ready to take a short spin

111
00:06:15,029 --> 00:06:07,909
f7

112
00:06:18,469 --> 00:06:16,790
this graphic on your screen right now

113
00:06:20,150 --> 00:06:18,479

shows the components of a soyuz

114
00:06:22,230 --> 00:06:20,160
spacecraft

115
00:06:24,550 --> 00:06:22,240
the top is the orbital module which

116
00:06:28,390 --> 00:06:24,560
contains the docking mechanism

117
00:06:31,189 --> 00:06:28,400
and the crew in this soyuz

118
00:06:33,189 --> 00:06:31,199
kate rubens commander sergey rijikov and

119
00:06:35,510 --> 00:06:33,199
sergey kuzkov are currently in the

120
00:06:37,590 --> 00:06:35,520
middle portion of the soyuz which is the

121
00:06:39,830 --> 00:06:37,600
descent module as they were for launch

122
00:06:41,510 --> 00:06:39,840
back in october earlier this morning the

123
00:06:44,230 --> 00:06:41,520
crew moved from the service module

124
00:06:45,830 --> 00:06:44,240
inside the ms-17 vehicle closed the

125
00:06:47,029 --> 00:06:45,840
hatches and began a series of leak

126
00:06:49,270 --> 00:06:47,039
checks to make sure there was an

127
00:06:52,629 --> 00:06:49,280
airtight seal now ready for today's

128
00:06:56,469 --> 00:06:54,629
again the relocation today will free up

129
00:06:58,749 --> 00:06:56,479
the rassvet port for the docking of

130
00:07:01,350 --> 00:06:58,759
another soyuz vehicle designated the

131
00:07:03,510 --> 00:07:01,360
ms-18 which will carry three expedition

132
00:07:06,390 --> 00:07:03,520
65 crew members to the station next

133
00:07:08,550 --> 00:07:06,400
month that'll be nasa's mark vanda high

134
00:07:10,629 --> 00:07:08,560
and rose cosmos is olig novinski and

135
00:07:13,189 --> 00:07:10,639
pyotr dubrov they are scheduled to

136
00:07:14,950 --> 00:07:13,199
launch to the station on friday april 9

137
00:07:19,909 --> 00:07:14,960
from the baikonur cosmodrome in

138
00:07:24,629 --> 00:07:21,670

the port relocation today will be the

139
00:07:27,270 --> 00:07:24,639
15th overall soyuz port relocation and

140
00:07:30,870 --> 00:07:27,280
this is the first time since august 2019

141
00:07:32,790 --> 00:07:30,880
when the expedition 60 crew performed a

142
00:07:35,029 --> 00:07:32,800
similar operation from the aft port of

143
00:08:08,469 --> 00:07:35,039
the visited module module to the poisk

144
00:08:12,390 --> 00:08:10,710
again this view now is a view from the

145
00:08:14,309 --> 00:08:12,400
russian mission control center on the

146
00:08:16,710 --> 00:08:14,319
outskirts of moscow in the town of

147
00:08:18,469 --> 00:08:16,720
corlioff and russian flight controllers

148
00:08:20,390 --> 00:08:18,479
there are in control of today's

149
00:08:23,270 --> 00:08:20,400
relocation activity

150
00:08:25,350 --> 00:08:23,280
just a short time from now at 11 37 a.m

151
00:08:26,950 --> 00:08:25,360
central time the command will be issued

152
00:08:28,869 --> 00:08:26,960
to initiate the opening of the hooks

153
00:08:30,950 --> 00:08:28,879
holding the soyuz to the earth-facing

154
00:08:33,110 --> 00:08:30,960
side of the rossviet module where the

155
00:08:35,589 --> 00:08:33,120
soyuz ms-17 vehicle has been parked

156
00:09:06,829 --> 00:08:35,599
since rubens rejikov and kutz verskoff

157
00:10:36,820 --> 00:09:08,550
studio

158
00:10:36,830 --> 00:10:42,230
[Music]

159
00:11:10,630 --> 00:10:47,590
is

160
00:11:10,640 --> 00:11:17,670
in one minute

161
00:11:17,680 --> 00:11:28,230
yes

162
00:11:46,949 --> 00:11:45,110
and the international space station

163
00:12:07,829 --> 00:11:46,959

currently in an orbital night time but

164
00:12:07,839 --> 00:12:23,509
original little

165
00:12:27,350 --> 00:12:25,590
and now 10 minutes away from the command

166
00:12:28,870 --> 00:12:27,360
being issued to initiate the opening of

167
00:12:31,430 --> 00:12:28,880
the hooks holding the soyuz to the

168
00:12:50,829 --> 00:12:31,440
earth-facing side of the rossviet module

169
00:12:56,550 --> 00:12:52,389
unintelligible

170
00:12:56,560 --> 00:13:07,190
armed

171
00:13:07,200 --> 00:13:25,750
so

172
00:13:25,760 --> 00:13:52,949
oh

173
00:13:52,959 --> 00:14:14,710
do

174
00:14:14,720 --> 00:14:32,870
dsd

175
00:14:32,880 --> 00:14:57,110
it's

176
00:15:00,150 --> 00:14:59,110
five seconds four

177
00:15:01,189 --> 00:15:00,160
three

178
00:15:02,470 --> 00:15:01,199
two

179
00:15:06,629 --> 00:15:02,480
one

180
00:15:09,350 --> 00:15:06,639
command is sent command has been sent

181
00:15:23,829 --> 00:15:09,360
okay so it's the removal of the

182
00:15:28,949 --> 00:15:25,350
we

183
00:15:31,910 --> 00:15:28,959
have the confirmation and maneuver

184
00:15:37,430 --> 00:15:31,920
and we do not need the saw in yet in

185
00:15:41,030 --> 00:15:39,110
and the station is currently in an

186
00:15:42,870 --> 00:15:41,040
orbital night time as the international

187
00:15:45,110 --> 00:15:42,880
space station is flying over the

188
00:15:46,550 --> 00:15:45,120

northwest pacific ocean

189
00:15:49,189 --> 00:15:46,560
running through some of the milestones

190
00:15:51,670 --> 00:15:49,199
again today just a few just a short time

191
00:15:53,670 --> 00:15:51,680
from now at 11 37 a.m central time the

192
00:15:55,670 --> 00:15:53,680
command will be issued to initiate the

193
00:15:57,509 --> 00:15:55,680
opening of the hooks which are holding

194
00:15:59,430 --> 00:15:57,519
the soyuz to the earth-facing side of

195
00:16:01,990 --> 00:15:59,440
the rossviet module

196
00:16:04,069 --> 00:16:02,000
90 seconds later at 11 38 the command

197
00:16:05,910 --> 00:16:04,079
will be issued for the hooks to open and

198
00:16:07,509 --> 00:16:05,920
that is when springs on both sides of

199
00:16:09,910 --> 00:16:07,519
the interface between the soyuz and

200
00:16:11,749 --> 00:16:09,920
rossviet will push off against one en

201
00:16:13,269 --> 00:16:11,759
one another and will have physical

202
00:16:17,910 --> 00:16:13,279
separation

203
00:16:19,749 --> 00:16:17,920
at 11 42 moving at a rate of two tenths

204
00:16:21,749 --> 00:16:19,759
of a meter per second the soyuz will

205
00:16:22,790 --> 00:16:21,759
reach a distance of 40 meters from the

206
00:16:23,910 --> 00:16:22,800
station

207
00:16:25,509 --> 00:16:23,920
at that point there will be a couple

208
00:16:27,030 --> 00:16:25,519
minutes of station keeping where the

209
00:16:29,509 --> 00:16:27,040
russian mission control center will be

210
00:16:31,430 --> 00:16:29,519
in contact with rijakov to make sure all

211
00:16:34,470 --> 00:16:31,440
of the systems on the soyuz are okay

212
00:16:36,790 --> 00:16:34,480
before the fly around at 11 45.2

213
00:16:38,550 --> 00:16:36,800

is not eliminated copied and that fly

214
00:16:40,710 --> 00:16:38,560
around will take about 13 minutes to

215
00:16:42,550 --> 00:16:40,720
complete going from nader to zenith and

216
00:16:43,990 --> 00:16:42,560
for the soyuz to properly align itself

217
00:16:45,910 --> 00:16:44,000
with the poisk module on the

218
00:16:48,829 --> 00:16:45,920
space-facing side on the russian segment

219
00:16:53,990 --> 00:16:51,910
station then around 11 58 the soyuz will

220
00:16:56,389 --> 00:16:54,000
park itself to allow russian flight

221
00:16:58,150 --> 00:16:56,399
controllers to assess the alignment

222
00:17:00,389 --> 00:16:58,160
and the final approach initiation will

223
00:17:03,430 --> 00:17:00,399
come at 1201 pm central time they'll

224
00:17:06,470 --> 00:17:03,440
close in on the poisk module

225
00:17:08,390 --> 00:17:06,480
for a docking six minutes later at 1207.

226
00:17:09,990 --> 00:17:08,400
okay 11.

227
00:17:12,309 --> 00:17:10,000
again once those hooks are closed and

228
00:17:13,829 --> 00:17:12,319
the port relocation is complete the crew

229
00:17:15,510 --> 00:17:13,839
and the soyuz will conduct a series of

230
00:17:17,350 --> 00:17:15,520
leak checks and they plan to open up the

231
00:17:19,909 --> 00:17:17,360
hatch to the international space station

232
00:17:21,750 --> 00:17:19,919
around 2 30 pm central time today

233
00:17:23,750 --> 00:17:21,760
they'll remove their spacesuits and the

234
00:17:58,789 --> 00:17:23,760
soyuz will be placed back on station

235
00:17:58,799 --> 00:18:02,230
oh

236
00:18:02,240 --> 00:18:25,830
so

237
00:18:25,840 --> 00:18:29,510
1936

238
00:18:35,669 --> 00:18:32,310

you will send this

239
00:18:42,870 --> 00:18:36,549
in

240
00:18:42,880 --> 00:18:59,990
okay the command is ready

241
00:19:03,750 --> 00:19:01,909
again the international space station is

242
00:19:06,390 --> 00:19:03,760
in an orbital night time right now but

243
00:19:08,230 --> 00:19:06,400
you are looking live at the soyuz ms-17

244
00:19:10,549 --> 00:19:08,240
spacecraft

245
00:19:12,710 --> 00:19:10,559
again inside

246
00:19:14,710 --> 00:19:12,720
is nasa flight engineer kate rubins

247
00:19:16,230 --> 00:19:14,720
soyuz commander sergey rizhikov and

248
00:19:18,150 --> 00:19:16,240
russian flight engineer sergey

249
00:19:20,150 --> 00:19:18,160
kudspeertzkoff

250
00:19:21,750 --> 00:19:20,160
again they are strapped into their seats

251
00:19:23,270 --> 00:19:21,760
in their soka launch and entry suits

252
00:19:31,590 --> 00:19:23,280
ready to take a short spin around the

253
00:19:31,600 --> 00:19:35,830
we are receiving the image

254
00:19:35,840 --> 00:19:51,110
copy

255
00:19:54,310 --> 00:19:52,789
this is a view of the engineering data

256
00:19:58,230 --> 00:19:54,320
that is being processed through the

257
00:20:02,070 --> 00:19:59,830
so that there are no

258
00:20:04,310 --> 00:20:02,080
foreign objects and then transition to

259
00:20:07,430 --> 00:20:04,320
the narrow angle

260
00:20:09,350 --> 00:20:07,440
send the command to do that and

261
00:20:10,789 --> 00:20:09,360
standing by for the call of free drift

262
00:20:12,310 --> 00:20:10,799
in just one minute which is when the

263
00:20:14,390 --> 00:20:12,320

international space station will be

264
00:20:16,230 --> 00:20:14,400
placed in free drift meaning all the

265
00:20:18,950 --> 00:20:16,240
thruster activities will be disabled for

266
00:20:18,960 --> 00:20:41,510
the being angle lens

267
00:20:57,110 --> 00:20:44,390
20 seconds before the activation of

268
00:21:00,630 --> 00:20:59,830
five seconds four three

269
00:21:15,510 --> 00:21:00,640
two

270
00:21:19,270 --> 00:21:16,950
i confirmed

271
00:21:20,870 --> 00:21:19,280
s 13 1 3

272
00:21:22,870 --> 00:21:20,880
and the international space station has

273
00:21:24,470 --> 00:21:22,880
been placed in free drift again meaning

274
00:21:26,630 --> 00:21:24,480
that all thruster activities are

275
00:21:28,390 --> 00:21:26,640
disabled for the time being we're now

276
00:21:30,630 --> 00:21:28,400
standing by for rishikov to issue the

277
00:21:32,149 --> 00:21:30,640
command to begin a 90-second procedure

278
00:21:33,830 --> 00:21:32,159
to open the hooks holding the soyuz

279
00:21:38,950 --> 00:21:33,840
vehicle in place at the moment to the

280
00:21:47,340 --> 00:21:40,870
also the command to open the hooks will

281
00:21:47,350 --> 00:21:51,750
[Music]

282
00:21:51,760 --> 00:21:55,909
10 seconds

283
00:22:00,630 --> 00:21:59,270
5 seconds four three two

284
00:22:02,070 --> 00:22:00,640
one

285
00:22:03,909 --> 00:22:02,080
bow

286
00:22:05,430 --> 00:22:03,919
the command is sent

287
00:22:06,870 --> 00:22:05,440
and the command has been issued to

288
00:22:08,390 --> 00:22:06,880

initiate the opening of the hooks

289
00:22:10,870 --> 00:22:08,400
holding the soyuz to the earth's

290
00:22:12,630 --> 00:22:10,880
earth-facing side of the rassvet module

291
00:22:17,830 --> 00:22:12,640
again it'll take about 90 seconds for

292
00:22:23,270 --> 00:22:21,190
11 is eliminated

293
00:22:27,430 --> 00:22:23,280
the transfer is closed

294
00:22:31,110 --> 00:22:29,110
you're getting a live look now of the

295
00:22:39,430 --> 00:22:31,120
engineering data that is being processed

296
00:22:39,440 --> 00:22:56,000
and the hooks are driving

297
00:22:56,010 --> 00:23:21,830
[Music]

298
00:23:21,840 --> 00:23:30,870
contact is not illuminated anymore

299
00:23:30,880 --> 00:23:34,310
separation

300
00:23:39,590 --> 00:23:36,710
and the soyuz has undocked

301
00:23:41,669 --> 00:23:39,600
undocking occurring on time at 11 38 and

302
00:23:43,350 --> 00:23:41,679
30 seconds am central time as the

303
00:23:46,500 --> 00:23:43,360
international space station flew over

304
00:23:51,830 --> 00:23:48,830
[Music]

305
00:23:53,750 --> 00:23:51,840
control inaudible you can see the soyuz

306
00:23:55,909 --> 00:23:53,760
backing away slowly now at a rate of

307
00:23:57,669 --> 00:23:55,919
two-tenths of a meter per second

308
00:23:59,669 --> 00:23:57,679
again the soyuz will reach a distance of

309
00:24:01,590 --> 00:23:59,679
40 meters from the station in about four

310
00:24:03,029 --> 00:24:01,600
minutes and at that point there will be

311
00:24:04,549 --> 00:24:03,039
a couple minutes of station keeping

312
00:24:06,390 --> 00:24:04,559
where the russian mission control center

313
00:24:09,029 --> 00:24:06,400

will be in contact with rishikov to make

314
00:24:11,990 --> 00:24:09,039
sure all soyuz systems are okay before

315
00:24:13,669 --> 00:24:12,000
they begin the final fly around at 11 45

316
00:24:16,390 --> 00:24:13,679
a.m central time

317
00:24:23,909 --> 00:24:16,400
so andre will be talking to you from now

318
00:24:30,870 --> 00:24:25,110
greetings

319
00:24:35,830 --> 00:24:32,630
now we uh

320
00:24:37,590 --> 00:24:35,840
we are we're starting to monitor this

321
00:24:39,990 --> 00:24:37,600
separation

322
00:24:52,950 --> 00:24:40,000
yes we can see the docking port

323
00:24:52,960 --> 00:25:00,870
activation is a confirmed copy

324
00:25:14,710 --> 00:25:02,149
so the

325
00:25:20,470 --> 00:25:17,669
i can see the docking port in

326
00:25:22,070 --> 00:25:20,480
serious stop very clearly there are no

327
00:25:24,950 --> 00:25:22,080
foreign objects

328
00:25:36,630 --> 00:25:24,960
no contamination the target is right in

329
00:25:41,110 --> 00:25:39,029
is backing the soyuz ms-17 away to a

330
00:25:42,630 --> 00:25:41,120
distance of about 40 meters before he

331
00:25:44,070 --> 00:25:42,640
puts the brakes on for a period of

332
00:25:46,390 --> 00:25:44,080
station keeping

333
00:25:48,310 --> 00:25:46,400
the range is 10 meters

334
00:25:50,070 --> 00:25:48,320
the next milestone after that will be

335
00:25:53,430 --> 00:25:50,080
will be the fly around which will begin

336
00:25:55,350 --> 00:25:53,440
at 11 45 to reposition the soyuz to an

337
00:26:02,789 --> 00:25:55,360
another 40 meter distance away from the

338
00:26:02,799 --> 00:26:13,750

so whatever image suits you better

339
00:26:17,990 --> 00:26:15,430
standing by now for station keeping

340
00:26:36,310 --> 00:26:18,000
which is set to begin at 11 42 and 30

341
00:26:41,750 --> 00:26:38,470
vehicle should be in this

342
00:26:45,750 --> 00:26:43,269
so the

343
00:26:48,149 --> 00:26:45,760
target should be in this

344
00:26:50,710 --> 00:26:48,159
center of the periscope

345
00:27:02,630 --> 00:26:50,720
two squares

346
00:27:08,870 --> 00:27:07,110
target a little bit to the right and

347
00:27:11,909 --> 00:27:08,880
the separation is

348
00:27:11,919 --> 00:27:14,630
the range

349
00:27:14,640 --> 00:27:18,830
is about 20 meters now

350
00:27:18,840 --> 00:27:24,310
copy the crosshairs are aligned copy

351
00:27:43,669 --> 00:27:27,750
in 30 minutes we are expecting

352
00:27:48,710 --> 00:27:46,230
so do you see the target on this

353
00:27:59,990 --> 00:27:48,720
stereoscope screens yes i can see it

354
00:28:00,000 --> 00:28:04,950
the range is 25 meters

355
00:28:04,960 --> 00:28:13,110
i'm ready

356
00:28:18,190 --> 00:28:14,789
so the uh

357
00:28:24,870 --> 00:28:21,909
0.12 meters per second and this

358
00:28:51,190 --> 00:28:24,880
separation will be on

359
00:28:51,200 --> 00:28:55,430
is confirmed

360
00:28:59,029 --> 00:28:57,269
and the brakes are on station keeping is

361
00:29:02,070 --> 00:28:59,039
now underway

362
00:29:06,789 --> 00:29:02,080
so i'm monitoring station skipping mode

363
00:29:12,870 --> 00:29:08,950

it's sunrise

364
00:29:14,789 --> 00:29:12,880
we're going into sunrise copy

365
00:29:17,350 --> 00:29:14,799
the soyuz now coming up on an orbital

366
00:29:17,360 --> 00:29:20,789
should be prepared

367
00:29:25,190 --> 00:29:23,269
so the maneuver to the right

368
00:29:32,789 --> 00:29:25,200
is being deformed and the range is 30

369
00:29:36,230 --> 00:29:34,789
maneuver is started

370
00:29:37,750 --> 00:29:36,240
popping

371
00:29:39,909 --> 00:29:37,760
off in the final steps of the roll

372
00:29:41,750 --> 00:29:39,919
maneuver that will put the soyuz in the

373
00:29:43,750 --> 00:29:41,760
correct orientation to begin the fly

374
00:29:54,920 --> 00:29:43,760
around and repositioning of the soyuz

375
00:30:34,630 --> 00:30:01,110
[Music]

376
00:30:34,640 --> 00:30:46,630
unintelligible

377
00:30:50,710 --> 00:30:49,430
is the range right now and i continue

378
00:30:57,190 --> 00:30:50,720
maneuver

379
00:30:57,200 --> 00:31:07,990
unintelligible

380
00:31:12,549 --> 00:31:10,470
so we are on perpendicular to the axis

381
00:31:20,710 --> 00:31:12,559
of this station and i continue the

382
00:31:20,720 --> 00:32:30,440
oh

383
00:32:30,450 --> 00:32:41,750
[Music]

384
00:32:46,789 --> 00:32:43,669
probe extension to initial position

385
00:32:48,389 --> 00:32:46,799
command is go yes we confirm it to go

386
00:32:51,910 --> 00:32:48,399
copy

387
00:32:56,630 --> 00:32:53,990
[Music]

388
00:32:58,470 --> 00:32:56,640

i can send it from a display

389
00:33:00,470 --> 00:32:58,480
rijakov about to send the command to

390
00:33:02,549 --> 00:33:00,480
extend the docking probe on the forward

391
00:33:06,549 --> 00:33:02,559
end of the soyuz vehicle

392
00:33:10,470 --> 00:33:08,310
and the command has been sent for probe

393
00:33:13,590 --> 00:33:10,480
extension

394
00:33:36,470 --> 00:33:13,600
the initial position was sent copy

395
00:33:36,480 --> 00:33:50,789
a little bit earlier than planned

396
00:34:06,310 --> 00:33:54,070
so the roll maneuver is coming to an end

397
00:34:09,430 --> 00:34:08,149
rishikov completing the final steps of

398
00:34:11,270 --> 00:34:09,440
the roll maneuver that will put the

399
00:34:13,030 --> 00:34:11,280
soyuz in the correct orientation to

400
00:34:34,560 --> 00:34:13,040
begin the fly-around and repositioning

401
00:34:34,570 --> 00:34:47,270
[Music]

402
00:34:47,280 --> 00:34:56,629
of the fly around is ready

403
00:35:08,390 --> 00:34:59,750
the angular rate should be 0.3 degrees

404
00:35:12,790 --> 00:35:10,790
you're watching live as the soyuz ms-17

405
00:35:14,710 --> 00:35:12,800
vehicle begins its fly around under the

406
00:35:17,430 --> 00:35:14,720
controls of soyuz commander sergey

407
00:35:19,430 --> 00:35:17,440
ryjikov again this fly around will take

408
00:35:21,910 --> 00:35:19,440
about 13 minutes to complete going from

409
00:35:23,589 --> 00:35:21,920
the nader to zenith and for the soyuz to

410
00:35:25,990 --> 00:35:23,599
properly align itself with the poisk

411
00:35:29,349 --> 00:35:26,000
module on the space-facing side of the

412
00:35:29,359 --> 00:35:32,150
was station

413
00:35:41,829 --> 00:35:35,430

to monitor the velocity of the fly

414
00:35:47,030 --> 00:35:45,670
and i recommend five six squares of the

415
00:35:53,190 --> 00:35:47,040
margin

416
00:36:10,870 --> 00:35:56,069
so we can see the vehicle on this one

417
00:36:19,270 --> 00:36:14,390
they fly around along the axis of the sm

418
00:36:24,150 --> 00:36:21,030
this universe

419
00:36:30,150 --> 00:36:24,160
we can see big diameter six squares on

420
00:36:34,150 --> 00:36:32,630
and cygnus now coming into

421
00:36:36,550 --> 00:36:34,160
the picture on the right side of your

422
00:36:42,870 --> 00:36:36,560
screen as the soyuz continues its fly

423
00:36:47,670 --> 00:36:45,109
and we continue

424
00:36:49,910 --> 00:36:47,680
to fly around

425
00:37:06,390 --> 00:36:49,920
so i can see the indication of the probe

426
00:37:06,400 --> 00:37:18,630
copy

427
00:37:57,670 --> 00:37:20,310
the international space station now

428
00:38:03,670 --> 00:37:59,990
25 degrees

429
00:38:06,150 --> 00:38:03,680
33 meters is the range and we can see

430
00:38:07,510 --> 00:38:06,160
you play around copy

431
00:38:09,829 --> 00:38:07,520
go ahead

432
00:38:12,470 --> 00:38:09,839
rejikov continues to manually fly the

433
00:38:14,710 --> 00:38:12,480
soyuz ms-17 spacecraft from the rasviet

434
00:38:16,550 --> 00:38:14,720
module to the poisk module

435
00:38:18,470 --> 00:38:16,560
again freeing up that rossviet docking

436
00:38:20,950 --> 00:38:18,480
port for the arrival of the expedition

437
00:38:23,589 --> 00:38:20,960
65 crew members of nasa's mark vanda

438
00:38:26,790 --> 00:38:23,599

high and rose cosmos's oleg navinsky and

439
00:38:30,470 --> 00:38:28,790
next up rishikov will park the soyuz

440
00:38:31,829 --> 00:38:30,480
about 40 meters away from the poisk

441
00:38:33,430 --> 00:38:31,839
module to allow russian flight

442
00:38:35,510 --> 00:38:33,440
controllers to assess the alignment of

443
00:38:37,349 --> 00:38:35,520
the vehicle to the docking port before

444
00:38:58,550 --> 00:38:37,359
the final go is given for approach and

445
00:39:03,430 --> 00:39:00,710
squares fly around

446
00:39:55,829 --> 00:39:03,440
goes on copy

447
00:40:00,470 --> 00:39:58,390
and you can see 77 progress on the left

448
00:40:33,990 --> 00:40:00,480
side of your screen as the soyuz in the

449
00:40:37,270 --> 00:40:35,750
the range is

450
00:40:40,470 --> 00:40:37,280
inaudible

451
00:40:42,150 --> 00:40:40,480
i can see the vehicle

452
00:40:44,870 --> 00:40:42,160
full view

453
00:40:45,750 --> 00:40:44,880
the range is safe and we continue fly

454
00:41:01,030 --> 00:40:45,760
around

455
00:41:46,829 --> 00:41:02,550
this view showing the cross-haired

456
00:41:50,630 --> 00:41:47,990
degrees see on

457
00:41:52,790 --> 00:41:50,640
into display

458
00:42:00,640 --> 00:41:52,800
we continue fly around

459
00:42:13,829 --> 00:42:06,560
[Music]

460
00:42:40,069 --> 00:42:15,270
continue

461
00:42:40,079 --> 00:42:56,870
so

462
00:42:56,880 --> 00:43:17,090
i see the horizon are you even poppy

463
00:43:17,100 --> 00:43:21,910

[Music]

464
00:43:21,920 --> 00:43:35,589
round

465
00:43:35,599 --> 00:43:41,820
so

466
00:43:41,830 --> 00:44:03,030
[Music]

467
00:44:49,190 --> 00:44:04,630
the international space station now

468
00:44:53,589 --> 00:44:51,190
and we're continuing to fly around the

469
00:44:55,829 --> 00:44:53,599
current ranges five squares on the

470
00:44:56,950 --> 00:44:55,839
screen copy hole please continue the fly

471
00:45:58,870 --> 00:44:56,960
around

472
00:45:58,880 --> 00:46:23,349
foreign

473
00:46:26,550 --> 00:46:25,030
and we're continuing the

474
00:46:29,109 --> 00:46:26,560
fly around

475
00:46:30,390 --> 00:46:29,119
copy

476
00:46:33,829 --> 00:46:30,400
we also

477
00:46:36,550 --> 00:46:33,839
see all the all the images and uh we see

478
00:47:06,870 --> 00:46:36,560
that you are finishing the fly around

479
00:47:06,880 --> 00:47:11,109
we'll continue the fire around

480
00:47:39,910 --> 00:47:12,950
towards the mram to

481
00:47:43,510 --> 00:47:41,510
reporting a good visual on the docking

482
00:47:47,349 --> 00:47:43,520
port itself as he fine-tunes the

483
00:48:14,069 --> 00:47:49,349
again this view showing the cross-haired

484
00:48:25,750 --> 00:48:16,549
we have reached the

485
00:48:25,760 --> 00:48:38,390
and the fly around is complete

486
00:48:41,430 --> 00:48:39,829
and at this time russian flight

487
00:48:43,270 --> 00:48:41,440
controllers are assessing the alignment

488
00:48:45,270 --> 00:48:43,280

of the vehicle to the poisk module

489
00:49:05,030 --> 00:48:45,280
docking port before the go is given for

490
00:49:28,470 --> 00:49:07,670
the target is in the center of the

491
00:49:31,510 --> 00:49:29,829
yes i have completed it the current

492
00:49:34,309 --> 00:49:31,520
range is conditioned

493
00:49:39,270 --> 00:49:34,319
37 meters all of the crosshairs are

494
00:49:43,270 --> 00:49:41,190
can you confirm

495
00:49:45,910 --> 00:49:43,280
yes i'm ready for

496
00:49:47,430 --> 00:49:45,920
the five command

497
00:49:50,069 --> 00:49:47,440
command send

498
00:49:51,670 --> 00:49:50,079
monitoring victor 5

499
00:49:54,790 --> 00:49:51,680
command

500
00:49:57,430 --> 00:49:54,800
d5 is not illuminated d7

501
00:50:02,390 --> 00:49:57,440
d9 command illuminated command

502
00:50:02,400 --> 00:50:05,990
and c11 command

503
00:50:06,000 --> 00:50:09,670
that is illuminated

504
00:50:15,270 --> 00:50:12,470
updating the current position

505
00:50:17,910 --> 00:50:15,910
that

506
00:50:20,710 --> 00:50:17,920
dock in internal transfer

507
00:50:49,270 --> 00:50:20,720
system ready

508
00:50:53,990 --> 00:50:51,670
target is in the center all the

509
00:50:55,670 --> 00:50:54,000
crosshairs are aligned current range is

510
00:50:56,470 --> 00:50:55,680
36 meters

511
00:50:57,510 --> 00:50:56,480
the

512
00:51:00,710 --> 00:50:57,520
vehicle

513
00:51:02,710 --> 00:51:00,720

is stable and i need your goal

514
00:51:04,790 --> 00:51:02,720
to proceed to a distance of 20 meters

515
00:51:06,309 --> 00:51:04,800
from the station at the range rate of

516
00:51:20,829 --> 00:51:06,319
0.2

517
00:51:24,150 --> 00:51:22,630
command

518
00:51:26,470 --> 00:51:24,160
and the final approach has been

519
00:51:27,990 --> 00:51:26,480
initiated by rijakov the soyuz will

520
00:51:30,069 --> 00:51:28,000
close in on the poisk module at a

521
00:51:30,950 --> 00:51:30,079
closure rate of one tenth of a meter per

522
00:51:32,630 --> 00:51:30,960
second

523
00:51:49,190 --> 00:51:32,640
this final approach will take about six

524
00:51:59,780 --> 00:51:51,510
the soyuz now 25 meters away from its

525
00:51:59,790 --> 00:52:11,829
[Music]

526
00:52:19,030 --> 00:52:16,150
getting closer to the range of 20 meters

527
00:52:25,270 --> 00:52:19,040
and i'm currently decreasing the range

528
00:52:44,069 --> 00:52:27,750
to continue the approach to 3 meters

529
00:52:53,589 --> 00:52:45,829
target is in the center course hair is

530
00:52:53,599 --> 00:52:58,390
am i going to send the command yes

531
00:52:58,400 --> 00:53:10,870
copy

532
00:53:15,349 --> 00:53:11,670
and

533
00:53:17,670 --> 00:53:15,359
i am continuing with the final approach

534
00:53:24,150 --> 00:53:17,680
to the range of feet meters copy three

535
00:53:40,230 --> 00:53:25,589
now in the home stretch of this

536
00:53:40,240 --> 00:53:45,190
15

537
00:53:45,200 --> 00:54:17,910
please continue your final approach

538
00:54:46,710 --> 00:54:19,829

the soyuz now 10 meters away from the

539
00:54:50,230 --> 00:54:48,390
and i'm ready to proceed with the

540
00:55:22,710 --> 00:54:50,240
station

541
00:55:22,720 --> 00:55:46,950
with final approach

542
00:55:53,190 --> 00:55:50,069
to perform station clipping

543
00:55:55,829 --> 00:55:53,200
at three meter range

544
00:55:56,950 --> 00:55:55,839
station keeping complete there is no

545
00:55:59,670 --> 00:55:56,960
offset

546
00:56:02,950 --> 00:55:59,680
on the roll axis the token target is in

547
00:56:05,190 --> 00:56:02,960
the center crosshairs aligned poppy

548
00:56:06,950 --> 00:56:05,200
position is being updated

549
00:56:08,470 --> 00:56:06,960
and this is one more opportunity for

550
00:56:10,390 --> 00:56:08,480
station keeping to make sure we have a

551
00:56:24,309 --> 00:56:10,400
proper alignment between the soyuz and

552
00:56:28,549 --> 00:56:26,150
target is in the center crosshairs

553
00:56:35,510 --> 00:56:28,559
aligned no offset

554
00:56:41,109 --> 00:56:37,990
final approach uh yes uh you are go

555
00:56:44,630 --> 00:56:41,119
depressive the final approach in erotica

556
00:56:50,150 --> 00:56:48,150
and please provide detailed commentary

557
00:56:51,589 --> 00:56:50,160
because we are not receiving the video

558
00:56:57,270 --> 00:56:51,599
right now

559
00:57:01,030 --> 00:56:59,430
we're in a period of handovers between

560
00:57:18,630 --> 00:57:01,040
satellites at this time but should be

561
00:57:22,230 --> 00:57:20,470
please provide detailed commentary

562
00:57:39,030 --> 00:57:22,240
because we're not getting the video

563
00:57:44,069 --> 00:57:42,549

20 12 35 this is the time

564
00:57:46,630 --> 00:57:44,079
copy

565
00:57:49,190 --> 00:57:46,640
congratulations with this successful

566
00:57:59,750 --> 00:57:52,390
rhd and thc control is to neutral

567
00:58:05,750 --> 00:58:03,349
contact confirmed at 12 12 p.m central

568
00:58:07,270 --> 00:58:05,760
time 1 12 p.m eastern time as the

569
00:58:09,829 --> 00:58:07,280
international space station and the

570
00:58:12,950 --> 00:58:09,839
soyuz ms-17 were flying over the south

571
00:58:23,589 --> 00:58:12,960
atlantic east of argentina

572
00:58:30,069 --> 00:58:27,270
mode deactivating l2 command is being

573
00:58:33,589 --> 00:58:30,079
selected and send copy

574
00:58:36,390 --> 00:58:33,599
manual attitude mode is deactivated copy

575
00:59:00,710 --> 00:58:36,400
d9 command deny

576
00:59:10,069 --> 00:59:03,990
section one pressure is one for eight

577
00:59:10,079 --> 00:59:14,390
value is 464.

578
00:59:21,670 --> 00:59:15,430
copy

579
00:59:21,680 --> 00:59:29,349
reach into the wide lens

580
00:59:33,270 --> 00:59:31,349
monitoring please

581
00:59:35,589 --> 00:59:33,280
arm ourselves once again it's a

582
00:59:38,390 --> 00:59:35,599
successful docking occurring at 12 12

583
00:59:40,150 --> 00:59:38,400
p.m central time 1 12 p.m eastern time

584
00:59:42,549 --> 00:59:40,160
as the international space station and

585
00:59:44,829 --> 00:59:42,559
the soyuz ms-17 were flying over the

586
00:59:46,150 --> 00:59:44,839
south atlantic east of

587
00:59:50,200 --> 00:59:46,160
argentina please

588
00:59:54,630 --> 00:59:52,390

[Music]

589
00:59:56,870 --> 00:59:54,640
please select ss repair document

590
00:59:59,349 --> 00:59:56,880
internal transfer assistant

591
01:00:02,390 --> 00:59:59,359
display on input to control panel for

592
01:00:05,910 --> 01:00:02,400
payroll a headlight deactivated

593
01:00:11,990 --> 01:00:08,309
one valve to close

594
01:00:20,789 --> 01:00:17,109
pressure at 2015 is 757

595
01:00:23,190 --> 01:00:20,799
copy 6757 and the docking probe has now

596
01:00:24,789 --> 01:00:23,200
begun to retract

597
01:00:28,630 --> 01:00:24,799
pressure

598
01:00:33,109 --> 01:00:31,270
again the soyuz ms-17 now at the poisk

599
01:00:35,349 --> 01:00:33,119
module setting the stage for the arrival

600
01:00:37,510 --> 01:00:35,359
of the soyuz ms-18

601
01:00:50,390 --> 01:00:37,520
which will carry three expedition 65

602
01:00:50,400 --> 01:00:56,710
monitoring access alignment

603
01:00:56,720 --> 01:01:17,349
are you stopping

604
01:01:25,670 --> 01:01:19,030
electrical conductors mated led

605
01:01:25,680 --> 01:01:49,030
led is not illuminated copy

606
01:02:05,260 --> 01:01:51,030
and the hooks are starting to close to

607
01:02:53,589 --> 01:02:45,030
[Music]

608
01:02:59,109 --> 01:02:54,870
i confirm

609
01:02:59,990 --> 01:02:59,119
that g 15 is illuminated hooks closed at

610
01:03:01,349 --> 01:03:00,000
12

611
01:03:03,990 --> 01:03:01,359
18

612
01:03:05,510 --> 01:03:04,000
inaudible copy hooks closed confirmed

613
01:03:08,549 --> 01:03:05,520

and we now have confirmation that the

614
01:03:09,430 --> 01:03:08,559
hooks are closed at 12 18 pm central

615
01:03:14,950 --> 01:03:09,440
time

616
01:03:52,309 --> 01:03:14,960
mate between the soyuz ms-17 spacecraft

617
01:03:56,150 --> 01:03:53,750
again we have confirmation that the

618
01:04:00,230 --> 01:03:56,160
hooks are closed they were closed at 12

619
01:04:01,829 --> 01:04:00,240
18 pm central time 1 18 pm eastern time

620
01:04:04,549 --> 01:04:01,839
so we do have a hard mate between the

621
01:04:06,630 --> 01:04:04,559
soyuz ms-17 spacecraft and the poisk

622
01:04:09,349 --> 01:04:06,640
module to which the soyuz flew a short

623
01:04:11,029 --> 01:04:09,359
distance around from the rossviet module

624
01:04:13,829 --> 01:04:11,039
opening up the rassvet module for the

625
01:04:16,069 --> 01:04:13,839
arrival of the soyuz ms-18 which will

626
01:04:18,230 --> 01:04:16,079
carry three expedition 65 crew members

627
01:04:19,990 --> 01:04:18,240
to the station next month

628
01:04:22,309 --> 01:04:20,000
that'll be nasa's mark vanda high and

629
01:04:24,150 --> 01:04:22,319
rose cosmos is olig novinski and piotr

630
01:04:26,309 --> 01:04:24,160
dubrov and they are scheduled to launch

631
01:04:36,230 --> 01:04:26,319
to the station friday april 9th from the

632
01:04:41,910 --> 01:04:39,349
all right sergey i will not keep you any

633
01:04:43,270 --> 01:04:41,920
longer all the best to you

634
01:04:48,390 --> 01:04:43,280
good luck

635
01:04:49,910 --> 01:04:48,400
completion of your flight as well good

636
01:04:52,390 --> 01:04:49,920
luck thank you very much

637
01:04:57,910 --> 01:04:52,400
please pass my greetings to everyone and

638
01:05:02,789 --> 01:05:00,789

again inside the soyuz ms-17 spacecraft

639
01:05:05,270 --> 01:05:02,799
at this hour is nasa flight engineer

640
01:05:07,430 --> 01:05:05,280
kate rubins soyuz commander sergey

641
01:05:10,950 --> 01:05:07,440
rizhikov and russian flight engineer

642
01:05:13,270 --> 01:05:10,960
sergey kuzw now undocked after today's

643
01:05:15,109 --> 01:05:13,280
activity from the rassvet module located

644
01:05:17,270 --> 01:05:15,119
on the earth-facing port on the russian

645
01:05:19,190 --> 01:05:17,280
segment of the station to the poisk

646
01:05:20,870 --> 01:05:19,200
module on the space facing side which

647
01:05:25,910 --> 01:05:20,880
you can see in this updated graphic of

648
01:05:30,069 --> 01:05:27,829
command center

649
01:05:31,990 --> 01:05:30,079
rubens rejikov and kutzfertzgoff will

650
01:05:33,829 --> 01:05:32,000
now conduct about two hours worth of

651
01:05:36,630 --> 01:05:33,839
leak checks before we have confirmation

652
01:05:38,630 --> 01:05:36,640
of an air sight airtight seal

653
01:05:40,309 --> 01:05:38,640
the small vestibule or passageway

654
01:05:42,630 --> 01:05:40,319
between the soyuz and poison module will

655
01:05:44,549 --> 01:05:42,640
be repressurized and the crew will open

656
01:05:46,069 --> 01:05:44,559
up the hatches and these three crew

657
01:05:47,750 --> 01:05:46,079
members will return to the international

658
01:05:49,990 --> 01:05:47,760
space station to resume their daily

659
01:05:52,549 --> 01:05:50,000
activities until their return to earth

660
01:05:54,950 --> 01:05:52,559
in just three weeks april 17th in the

661
01:05:57,750 --> 01:05:54,960
soyuz ms-17 that carried them to the

662
01:06:01,109 --> 01:05:57,760
space station on october

663
01:06:14,390 --> 01:06:04,150

and that landing will wrap up their 185

664
01:06:21,349 --> 01:06:17,109
command selected and sent

665
01:06:23,670 --> 01:06:21,359
monitor z11 not eliminated the uh 15 is

666
01:06:25,430 --> 01:06:23,680
not eliminated guess 17 is not

667
01:06:36,950 --> 01:06:25,440
illuminated

668
01:06:40,630 --> 01:06:36,960
will switch to page 964 of the odf now

669
01:06:42,950 --> 01:06:41,589
to

670
01:06:44,390 --> 01:06:42,960
um

671
01:06:46,870 --> 01:06:44,400
for

672
01:06:49,990 --> 01:06:46,880
the first measurement out of the 15

673
01:06:52,150 --> 01:06:50,000
minutes of the first measurement 50 yes

674
01:06:54,510 --> 01:06:52,160
in 15 minutes

675
01:06:56,950 --> 01:06:54,520
the next measurement and we are

676
01:07:02,150 --> 01:06:56,960
deactivating the equipment now with your

677
01:07:06,789 --> 01:07:04,950
possession yesterday again a flawless

678
01:07:07,910 --> 01:07:06,799
undocking and re-docking today at the

679
01:07:09,750 --> 01:07:07,920
controls

680
01:07:11,430 --> 01:07:09,760
of sergey rizhikov who manually

681
01:07:13,510 --> 01:07:11,440
transitioned to the soyuz away from the

682
01:07:14,710 --> 01:07:13,520
station to a position above the poisk

683
01:07:17,910 --> 01:07:14,720
module for

684
01:07:20,390 --> 01:07:17,920
a docking at 12 12 pm central time 1 12

685
01:07:22,870 --> 01:07:20,400
pm eastern time setting the stage for

686
01:07:25,270 --> 01:07:22,880
the arrival of the soyuz ms-18 vehicle

687
01:07:26,230 --> 01:07:25,280
carrying three expedition 65 crew

688
01:07:28,309 --> 01:07:26,240

members

689
01:07:31,109 --> 01:07:28,319
nasa's mark vanda high and rose cosmos

690
01:07:32,470 --> 01:07:31,119
is oleg novitskiy and pyotr dubrov again

691
01:07:34,230 --> 01:07:32,480
they are scheduled to launch to the

692
01:07:38,549 --> 01:07:34,240
station friday april 9th from the

693
01:07:42,789 --> 01:07:40,950
looking ahead nasa astronaut mark vande

694
01:07:45,670 --> 01:07:42,799
high will be available tuesday march

695
01:07:47,510 --> 01:07:45,680
23rd for media interviews prior to his

696
01:07:50,549 --> 01:07:47,520
april launch to the international space

697
01:07:52,230 --> 01:07:50,559
station marking his second space flight

698
01:07:54,309 --> 01:07:52,240
the satellite interviews will take place

699
01:07:57,270 --> 01:07:54,319
as vanda high finishes training in star

700
01:07:59,430 --> 01:07:57,280
city russia

701
01:08:02,309 --> 01:07:59,440
and those will air live at 7 am central

702
01:08:06,390 --> 01:08:02,319
time 8 a.m eastern time on nasa tv the

703
01:08:09,029 --> 01:08:06,400
nasa app and the agency's website

704
01:08:10,950 --> 01:08:09,039
with the soyuz ms-17 now safely redocked

705
01:08:12,789 --> 01:08:10,960
to the poisk module that will wrap up

706
01:08:29,360 --> 01:08:12,799
our coverage today this is mission