



1  
00:00:07,280 --> 00:00:05,059  
little bit of unscheduled excitement for

2  
00:00:09,020 --> 00:00:07,290  
the crew of expedition 42 today onboard

3  
00:00:10,940 --> 00:00:09,030  
the International Space Station here to

4  
00:00:12,379 --> 00:00:10,950  
tell me a little bit more and update us

5  
00:00:14,720 --> 00:00:12,389  
on the current status the program

6  
00:00:16,430 --> 00:00:14,730  
manager mr. Mike Suffredini Mike if you

7  
00:00:18,200 --> 00:00:16,440  
could start us off just kind of walk us

8  
00:00:20,359 --> 00:00:18,210  
through the genesis of what happened

9  
00:00:24,170 --> 00:00:20,369  
this morning this morning in about 4:00

10  
00:00:26,540 --> 00:00:24,180  
a.m. the systems indicated tests on the

11  
00:00:30,980 --> 00:00:26,550  
ground that there were four measurements

12  
00:00:32,900 --> 00:00:30,990  
that indicated to off scale and at that

13  
00:00:36,620 --> 00:00:32,910

time the team didn't know what that was

14

00:00:38,660 --> 00:00:36,630

what the cause of that was and so one of

15

00:00:40,430 --> 00:00:38,670

those was what we refer to as

16

00:00:43,220 --> 00:00:40,440

accumulator quantity it's the it's

17

00:00:46,910 --> 00:00:43,230

basically the water level in one of the

18

00:00:50,090 --> 00:00:46,920

coolant loops inside the lab and so this

19

00:00:52,430 --> 00:00:50,100

is important because we have a risk that

20

00:00:55,040 --> 00:00:52,440

we worry about or at least protect

21

00:00:57,979 --> 00:00:55,050

against and this has to do with getting

22

00:01:00,709 --> 00:00:57,989

ammonia into into the crew environment

23

00:01:04,130 --> 00:01:00,719

so the way we cool the space station is

24

00:01:06,440 --> 00:01:04,140

we have been ammonia system outside that

25

00:01:09,350 --> 00:01:06,450

transfers the heat from a water system

26  
00:01:10,670 --> 00:01:09,360  
inside and the water system is inside to

27  
00:01:12,440 --> 00:01:10,680  
protect the crew you don't want to have

28  
00:01:14,600 --> 00:01:12,450  
hazardous chemicals flowing through the

29  
00:01:15,859 --> 00:01:14,610  
water loops so we have heat exchangers

30  
00:01:17,899 --> 00:01:15,869  
where we exchange the heat between the

31  
00:01:20,920 --> 00:01:17,909  
water loop inside pneumonia loop outside

32  
00:01:23,630 --> 00:01:20,930  
so that's one location where ammonia can

33  
00:01:25,190 --> 00:01:23,640  
leak if you have a failure inside the

34  
00:01:28,310 --> 00:01:25,200  
heat exchanger which they're designed to

35  
00:01:30,140 --> 00:01:28,320  
prevent you could potentially leak

36  
00:01:32,060 --> 00:01:30,150  
ammonia because it's higher pressure

37  
00:01:34,280 --> 00:01:32,070  
outside you could leak ammonia into the

38  
00:01:36,319 --> 00:01:34,290

water loop and then there's a path

39

00:01:39,170 --> 00:01:36,329

through which it can find its way into

40

00:01:42,020 --> 00:01:39,180

the cabin and so one of the telltale

41

00:01:44,690 --> 00:01:42,030

signs of a potential ammonia leak would

42

00:01:47,660 --> 00:01:44,700

be if the accumulator indicated you were

43

00:01:49,249 --> 00:01:47,670

filling up and and so this failure mode

44

00:01:50,990 --> 00:01:49,259

that we saw this morning this alarm

45

00:01:51,950 --> 00:01:51,000

indicated that the accumulator was

46

00:01:54,139 --> 00:01:51,960

filling up okay

47

00:01:57,770 --> 00:01:54,149

amongst some other indications but this

48

00:01:59,480 --> 00:01:57,780

was the one of biggest concern and so

49

00:02:01,929 --> 00:01:59,490

the team that was the beginning of a

50

00:02:05,749 --> 00:02:01,939

discussion about are we dealing with a a

51  
00:02:07,819 --> 00:02:05,759  
real ammonia leak into the water or not

52  
00:02:11,750 --> 00:02:07,829  
now as everyone knows ammonia is a very

53  
00:02:13,570 --> 00:02:11,760  
hazardous chemical and so if this is

54  
00:02:16,690 --> 00:02:13,580  
possible then we we

55  
00:02:19,120 --> 00:02:16,700  
idiot Lee safe the vehicle and get the

56  
00:02:21,660 --> 00:02:19,130  
crew in a safe place so the way the

57  
00:02:23,830 --> 00:02:21,670  
station is designed we have two main

58  
00:02:26,800 --> 00:02:23,840  
segments if you will we have the Russian

59  
00:02:29,740 --> 00:02:26,810  
segment which can which houses the

60  
00:02:31,120 --> 00:02:29,750  
service module and the FGB and the and

61  
00:02:33,040 --> 00:02:31,130  
the ports associated with those two

62  
00:02:35,260 --> 00:02:33,050  
modules okay there's an interface

63  
00:02:36,460 --> 00:02:35,270

between that segment Russian segment and

64

00:02:38,890 --> 00:02:36,470

the forward part of the space station

65

00:02:42,100 --> 00:02:38,900

called the u.s. operating segment and

66

00:02:44,560 --> 00:02:42,110

that interfaces at the node and so for

67

00:02:46,540 --> 00:02:44,570

these kinds of emergencies the specific

68

00:02:49,090 --> 00:02:46,550

emergency we only have ammonia on the on

69

00:02:52,780 --> 00:02:49,100

the US OS side of the vehicle okay the

70

00:02:54,670 --> 00:02:52,790

plan is to have the crew go into the

71

00:02:56,680 --> 00:02:54,680

Russian segment close the node hatch and

72

00:02:59,290 --> 00:02:56,690

then we have some steps to take so they

73

00:03:00,880 --> 00:02:59,300

dawn their mast they get into the

74

00:03:03,580 --> 00:03:00,890

Russian segment they close the hatch

75

00:03:04,720 --> 00:03:03,590

they do some drag or tube testing we

76

00:03:06,100 --> 00:03:04,730

call it to look for ammonia in the

77

00:03:07,720 --> 00:03:06,110

atmosphere in the Russian segment make

78

00:03:09,640 --> 00:03:07,730

sure that hasn't been contaminated and

79

00:03:10,930 --> 00:03:09,650

then the team on the ground begins the

80

00:03:13,390 --> 00:03:10,940

process of trying to sort through the

81

00:03:16,290 --> 00:03:13,400

anomaly so that's the steps we took

82

00:03:18,910 --> 00:03:16,300

because of the indications we had okay

83

00:03:21,610 --> 00:03:18,920

confusing things a little bit was we

84

00:03:24,640 --> 00:03:21,620

also saw an increase in pressure in the

85

00:03:26,320 --> 00:03:24,650

cabin so if you're leaking ammonia into

86

00:03:28,240 --> 00:03:26,330

the water loop and it eventually finds

87

00:03:30,250 --> 00:03:28,250

its way into the cabin then you would

88

00:03:32,410 --> 00:03:30,260

expect the cabin pressure to go up so

89

00:03:35,229 --> 00:03:32,420

that was another so that's another and

90

00:03:37,000 --> 00:03:35,239

and those two cues together it's had the

91

00:03:39,190 --> 00:03:37,010

team really going sort of a conservative

92

00:03:40,900 --> 00:03:39,200

mode to go protect the crew so we did

93

00:03:42,460 --> 00:03:40,910

exactly that we got the crew on the mast

94

00:03:43,750 --> 00:03:42,470

they got to the Russian segment they

95

00:03:47,470 --> 00:03:43,760

closed the hatch we checked the

96

00:03:48,910 --> 00:03:47,480

environment and since that time we have

97

00:03:52,210 --> 00:03:48,920

been sorting through this anomaly and

98

00:03:54,759 --> 00:03:52,220

act and in fact we did it twice early on

99

00:03:57,910 --> 00:03:54,769

we sent the crew in because we didn't

100

00:04:00,190 --> 00:03:57,920

have the confirming queue at least not

101  
00:04:02,199 --> 00:04:00,200  
very solid so we had that we had the

102  
00:04:03,880 --> 00:04:02,209  
accumulator but not really the pressure

103  
00:04:05,890 --> 00:04:03,890  
wasn't changing dramatically but we sent

104  
00:04:08,199 --> 00:04:05,900  
the crew to the Russian segment to be

105  
00:04:12,160 --> 00:04:08,209  
safe finally decided maybe this is just

106  
00:04:13,780 --> 00:04:12,170  
a some sort of Indian problem because so

107  
00:04:16,599 --> 00:04:13,790  
many we lost so many measurements at one

108  
00:04:19,750 --> 00:04:16,609  
time we let the crew come back into the

109  
00:04:21,370 --> 00:04:19,760  
u.s. lab and then shortly after that the

110  
00:04:23,260 --> 00:04:21,380  
pressure started to climb in the cabin

111  
00:04:25,210 --> 00:04:23,270  
that's a that's a confirming cue and so

112  
00:04:26,890 --> 00:04:25,220  
then we went to the procedure the crew

113  
00:04:27,400 --> 00:04:26,900

donned the mask again and went back in

114

00:04:29,620 --> 00:04:27,410

the Russian side

115

00:04:30,670 --> 00:04:29,630

and have been there ever since the

116

00:04:33,400 --> 00:04:30,680

measurements on the Russian segment

117

00:04:34,750 --> 00:04:33,410

showed no indication the crew is they're

118

00:04:37,270 --> 00:04:34,760

not they don't have masks on they're

119

00:04:39,160 --> 00:04:37,280

just in the Russian segment you're doing

120

00:04:41,440 --> 00:04:39,170

the doing they're the work that they can

121

00:04:43,660 --> 00:04:41,450

do while they're in there and of course

122

00:04:45,610 --> 00:04:43,670

we have all the co2 removal oxygen

123

00:04:47,890 --> 00:04:45,620

generation through all the things in GRU

124

00:04:49,930 --> 00:04:47,900

needs they have in the Russian segment

125

00:04:51,460 --> 00:04:49,940

so they're safe there meanwhile in the

126  
00:04:52,960 --> 00:04:51,470  
US segment the team has been working

127  
00:04:55,330 --> 00:04:52,970  
very hard to try to sort through the

128  
00:04:57,790 --> 00:04:55,340  
anomaly at this point the team does not

129  
00:05:00,040 --> 00:04:57,800  
believe we leaked ammonia okay so no no

130  
00:05:01,900 --> 00:05:00,050  
hard evidence no real indication so far

131  
00:05:04,900 --> 00:05:01,910  
than any ammonia well what we what we

132  
00:05:09,030 --> 00:05:04,910  
are dealing with is these this failure

133  
00:05:11,530 --> 00:05:09,040  
of probably a card inside of one of our

134  
00:05:14,200 --> 00:05:11,540  
multiplexer demultiplexer x' it's just a

135  
00:05:17,020 --> 00:05:14,210  
computer that the breast since telemetry

136  
00:05:19,390 --> 00:05:17,030  
down and brings commands back up and and

137  
00:05:21,310 --> 00:05:19,400  
this card has a number of measurements

138  
00:05:24,970 --> 00:05:21,320

on it and those were the measurements we

139

00:05:27,880 --> 00:05:24,980

lost and through a source of how the

140

00:05:29,710 --> 00:05:27,890

system's reacted and what happens when

141

00:05:32,710 --> 00:05:29,720

you isolate the crew and shut off the

142

00:05:34,690 --> 00:05:32,720

ventilation and and all the things steps

143

00:05:36,580 --> 00:05:34,700

we take along the way we shut do we

144

00:05:38,530 --> 00:05:36,590

power down systems with quite a bit of

145

00:05:43,030 --> 00:05:38,540

things are done we shut off the outside

146

00:05:44,830 --> 00:05:43,040

big big pump mm-hmm and we depress the

147

00:05:47,530 --> 00:05:44,840

big pump so it's not providing as much

148

00:05:50,140 --> 00:05:47,540

pressure to charge push ammonia into the

149

00:05:51,760 --> 00:05:50,150

into the cabin of course that means we

150

00:05:54,220 --> 00:05:51,770

have to power things down so lots going

151

00:05:56,830 --> 00:05:54,230

on and we think there's something in

152

00:05:59,500 --> 00:05:56,840

that and made the pressure change that

153

00:06:03,010 --> 00:05:59,510

was you know that kind of gave the team

154

00:06:04,780 --> 00:06:03,020

a little bit of a question about at the

155

00:06:06,220 --> 00:06:04,790

time of course it looked like a no

156

00:06:07,870 --> 00:06:06,230

kidding pressure increasing now we're

157

00:06:10,690 --> 00:06:07,880

looking at thinking this may just be

158

00:06:13,180 --> 00:06:10,700

normal reactions to the events that

159

00:06:15,070 --> 00:06:13,190

start to unfold so the team is working

160

00:06:18,370 --> 00:06:15,080

through that we are now in a position

161

00:06:20,020 --> 00:06:18,380

where we think everything's good we but

162

00:06:21,270 --> 00:06:20,030

now we have this big road in front of us

163

00:06:24,190 --> 00:06:21,280

to get it back

164

00:06:27,730 --> 00:06:24,200

reconfigured so we've got the water loop

165

00:06:30,280 --> 00:06:27,740

up where as soon as we can get the MDM

166

00:06:33,400 --> 00:06:30,290

released we've done data dumps and stuff

167

00:06:35,529 --> 00:06:33,410

of the MDM to to know for certain the

168

00:06:37,000 --> 00:06:35,539

health of the MDM as soon as we can

169

00:06:38,350 --> 00:06:37,010

release that to the ops team then they

170

00:06:39,930 --> 00:06:38,360

will power cycle and see if we can

171

00:06:41,400 --> 00:06:39,940

recover these cards

172

00:06:43,200 --> 00:06:41,410

it's important because we do want to get

173

00:06:46,050 --> 00:06:43,210

to look at the accumulated money before

174

00:06:48,060 --> 00:06:46,060

we bring the crew back in yeah to the US

175

00:06:51,030 --> 00:06:48,070

segment just to be safe

176  
00:06:52,500 --> 00:06:51,040  
so that steps in front of us the pat

177  
00:06:54,540 --> 00:06:52,510  
we're doing some power ups now we got

178  
00:06:57,180 --> 00:06:54,550  
quite a few systems up actually

179  
00:07:00,920 --> 00:06:57,190  
integrating the loop be the external

180  
00:07:03,210 --> 00:07:00,930  
loop be into the system is the most

181  
00:07:05,250 --> 00:07:03,220  
time-consuming one because you can't

182  
00:07:06,660 --> 00:07:05,260  
just flip a switch and have ammonia flow

183  
00:07:08,970 --> 00:07:06,670  
through all the heat exchangers now

184  
00:07:10,590 --> 00:07:08,980  
because you because of the conditions

185  
00:07:12,600 --> 00:07:10,600  
now you can freeze the heat exchanger

186  
00:07:14,430 --> 00:07:12,610  
and for sure cause the crack which would

187  
00:07:16,320 --> 00:07:14,440  
end up introducing ammonia into the

188  
00:07:19,020 --> 00:07:16,330

system and so that takes a little bit

189

00:07:21,330 --> 00:07:19,030

longer so we have a couple steps in

190

00:07:23,790 --> 00:07:21,340

front of us the first is to get the

191

00:07:25,590 --> 00:07:23,800

power ups done which the team is doing

192

00:07:27,270 --> 00:07:25,600

or I should say one is to get the powers

193

00:07:29,820 --> 00:07:27,280

that power ups done that the team is

194

00:07:33,030 --> 00:07:29,830

working on and the second then is to get

195

00:07:35,580 --> 00:07:33,040

insight into the accumulator to confirm

196

00:07:37,860 --> 00:07:35,590

that the system is tight like we believe

197

00:07:39,510 --> 00:07:37,870

it to be and so we can bring the crew

198

00:07:40,980 --> 00:07:39,520

back in to the u.s. segment so that's

199

00:07:42,720 --> 00:07:40,990

where we are right now we would like to

200

00:07:46,140 --> 00:07:42,730

get the crew back in the u.s. segment

201  
00:07:49,260 --> 00:07:46,150  
tonight okay that would be our goal it's

202  
00:07:51,330 --> 00:07:49,270  
while it's inconvenient for the crew to

203  
00:07:54,540 --> 00:07:51,340  
be in the Russian segment it's certainly

204  
00:07:56,370 --> 00:07:54,550  
not unhealthy for them and so we'll do

205  
00:07:57,510 --> 00:07:56,380  
due diligence to make sure we're

206  
00:07:59,520 --> 00:07:57,520  
comfortable with the environment before

207  
00:08:00,600 --> 00:07:59,530  
we send them in there okay so crew kind

208  
00:08:02,700 --> 00:08:00,610  
of hanging out in the Russian segment

209  
00:08:04,290 --> 00:08:02,710  
right now Mission Control gonna walk

210  
00:08:06,420 --> 00:08:04,300  
through powering up a bunch of systems

211  
00:08:08,610 --> 00:08:06,430  
just to make sure so a couple of systems

212  
00:08:10,950 --> 00:08:08,620  
obviously non-critical systems powered

213  
00:08:12,840 --> 00:08:10,960

down and he impacts to science things

214

00:08:14,850 --> 00:08:12,850

like that onboard the station with this

215

00:08:16,830 --> 00:08:14,860

event well there were there were two

216

00:08:19,080 --> 00:08:16,840

things two things we were trying to do

217

00:08:20,640 --> 00:08:19,090

today one was I get started with micro

218

00:08:23,100 --> 00:08:20,650

five which was an experiment we were

219

00:08:25,409 --> 00:08:23,110

gonna do in the in the micro science

220

00:08:26,760 --> 00:08:25,419

microgravity Sciences glovebox so people

221

00:08:28,260 --> 00:08:26,770

probably heard us getting configured

222

00:08:29,670 --> 00:08:28,270

ready start that so that's been delayed

223

00:08:32,040 --> 00:08:29,680

but it's not critical we don't lose any

224

00:08:35,100 --> 00:08:32,050

research the other one that we needed to

225

00:08:37,050 --> 00:08:35,110

deal with was fruit flies and so this is

226

00:08:39,300 --> 00:08:37,060

what research is all about and we have

227

00:08:41,010 --> 00:08:39,310

to have healthy fruit fly so the team's

228

00:08:42,510 --> 00:08:41,020

off look in it when we needed to feed

229

00:08:44,280 --> 00:08:42,520

the fruit flies I think we're planning

230

00:08:46,890 --> 00:08:44,290

to do that today I don't think it's

231

00:08:48,060 --> 00:08:46,900

required today and so that's part of

232

00:08:50,030 --> 00:08:48,070

what we need to answer so there were

233

00:08:52,500 --> 00:08:50,040

some research we were and get started on

234

00:08:53,410 --> 00:08:52,510

but this of this would be a small blivet

235

00:08:55,509 --> 00:08:53,420

but it's not

236

00:08:57,220 --> 00:08:55,519

a major impactive yeah nothing there's

237

00:09:00,009 --> 00:08:57,230

no certain law or any get done we didn't

238

00:09:01,480 --> 00:09:00,019

lose any research the the freezers gets

239

00:09:03,699 --> 00:09:01,490

powered down as part of this which have

240

00:09:06,220 --> 00:09:03,709

a lot of samples that eventually bring

241

00:09:07,900 --> 00:09:06,230

home but the freezers is designed to go

242

00:09:10,480 --> 00:09:07,910

without power for a fairly long period

243

00:09:11,980 --> 00:09:10,490

of time over eight hours and we were

244

00:09:14,110 --> 00:09:11,990

well within that and all the freezers

245

00:09:16,870 --> 00:09:14,120

are back up and running now also the

246

00:09:19,269 --> 00:09:16,880

research has been all protected and it's

247

00:09:21,699 --> 00:09:19,279

just we'll have to replan you know that

248

00:09:24,879 --> 00:09:21,709

tomorrow and the subsequent days but it

249

00:09:25,900 --> 00:09:24,889

shouldn't result in any losses and one

250

00:09:28,449 --> 00:09:25,910

of the other thing i want to touch on

251  
00:09:30,250 --> 00:09:28,459  
real quick you know so when the team saw

252  
00:09:31,660 --> 00:09:30,260  
the indicators they snapped in action it

253  
00:09:33,430 --> 00:09:31,670  
was all very quick when they made the

254  
00:09:35,199 --> 00:09:33,440  
decisions talk a little bit about you

255  
00:09:36,639 --> 00:09:35,209  
know some of the different emergencies

256  
00:09:38,019 --> 00:09:36,649  
were that were trained for not only the

257  
00:09:39,550 --> 00:09:38,029  
astronauts with the teams on the ground

258  
00:09:41,439 --> 00:09:39,560  
and kind of how important it is to get

259  
00:09:42,699 --> 00:09:41,449  
that training not only before flight but

260  
00:09:43,720 --> 00:09:42,709  
also during flight they're still

261  
00:09:45,579 --> 00:09:43,730  
training even while they're up there

262  
00:09:49,680 --> 00:09:45,589  
right and this is this is a really

263  
00:09:52,120 --> 00:09:49,690

important aspect because we don't have

264

00:09:54,430 --> 00:09:52,130

knock on wood we haven't had any really

265

00:09:55,840 --> 00:09:54,440

major anomalies a little like this that

266

00:09:57,610 --> 00:09:55,850

caused us to get to the point we were

267

00:10:01,000 --> 00:09:57,620

concerned about the crews well-being and

268

00:10:03,699 --> 00:10:01,010

imminent well-being and so but we have

269

00:10:06,430 --> 00:10:03,709

three major categories anomalies that

270

00:10:09,189 --> 00:10:06,440

can put us an emergency situation one is

271

00:10:10,960 --> 00:10:09,199

rapid depress or you could get an impact

272

00:10:13,720 --> 00:10:10,970

or something that causes us to have a

273

00:10:15,790 --> 00:10:13,730

depressive en't the the other one is a

274

00:10:17,790 --> 00:10:15,800

tox issue and of course ammonia falls

275

00:10:21,210 --> 00:10:17,800

under the tox issue but there's other

276

00:10:24,670 --> 00:10:21,220

there's other toxins that can occur on

277

00:10:27,280 --> 00:10:24,680

board but ammonia is though is the one

278

00:10:30,550 --> 00:10:27,290

that we trained the most for and then

279

00:10:34,060 --> 00:10:30,560

fire finally is the fire and smoke issue

280

00:10:37,569 --> 00:10:34,070

and so while fire and ammonia leaks are

281

00:10:39,370 --> 00:10:37,579

very very very low risk all three of

282

00:10:42,100 --> 00:10:39,380

these types of anomalies we trained for

283

00:10:44,470 --> 00:10:42,110

on the ground in an integrated fashion

284

00:10:47,110 --> 00:10:44,480

with our Russian colleagues with the

285

00:10:50,079 --> 00:10:47,120

crew and then we actually practice them

286

00:10:51,220 --> 00:10:50,089

once we get on orbit to keep everybody

287

00:10:53,800 --> 00:10:51,230

sharp yeah

288

00:10:56,199 --> 00:10:53,810

these kinds of emergencies start with

289

00:10:58,240 --> 00:10:56,209

protecting the crew then trying to deal

290

00:11:01,000 --> 00:10:58,250

with the issue and then if in the end we

291

00:11:03,819 --> 00:11:01,010

can't deal with the issue that we can

292

00:11:05,319 --> 00:11:03,829

some of them can result in evacuating

293

00:11:06,800 --> 00:11:05,329

the station and so all of these steps

294

00:11:08,600 --> 00:11:06,810

have to be taken care of

295

00:11:10,490 --> 00:11:08,610

and make sure the crew is real sharp and

296

00:11:12,140 --> 00:11:10,500

the teams will sharp because if they

297

00:11:14,000 --> 00:11:12,150

occur in some cases you have very little

298

00:11:16,490 --> 00:11:14,010

time to take the steps necessary to

299

00:11:18,050 --> 00:11:16,500

protect the crew so this is something

300

00:11:21,019 --> 00:11:18,060

that we train regularly and you could

301  
00:11:24,710 --> 00:11:21,029  
tell today the team really there was

302  
00:11:27,200 --> 00:11:24,720  
never any risk to the crew we were

303  
00:11:29,900 --> 00:11:27,210  
watching the data and and trying not to

304  
00:11:31,550 --> 00:11:29,910  
isolate him but we we isolated him twice

305  
00:11:32,840 --> 00:11:31,560  
pretty fast so if we need to do it we

306  
00:11:36,079 --> 00:11:32,850  
know how to do it the crew knows what to

307  
00:11:38,060 --> 00:11:36,089  
do and in fact after after they isolate

308  
00:11:39,500 --> 00:11:38,070  
themselves a Russian segment butch

309  
00:11:41,150 --> 00:11:39,510  
called down and said hey thought

310  
00:11:43,700 --> 00:11:41,160  
everything went really well everybody

311  
00:11:45,950 --> 00:11:43,710  
was knew their jobs and got him down and

312  
00:11:47,210 --> 00:11:45,960  
and so will will debrief that to see if

313  
00:11:49,880 --> 00:11:47,220

there's any lessons learned but it

314

00:11:52,490 --> 00:11:49,890

seemed like the team as you would would

315

00:11:54,380 --> 00:11:52,500

expect reacted appropriately to the

316

00:11:56,269 --> 00:11:54,390

event all right well good to hear a

317

00:11:57,920 --> 00:11:56,279

happy word from the commander again the

318

00:11:59,440 --> 00:11:57,930

crews safe inside the Russian segment

319

00:12:01,700 --> 00:11:59,450

not in any danger

320

00:12:03,230 --> 00:12:01,710

indicators pointing to no ammonia being

321

00:12:05,090 --> 00:12:03,240

leaked but obviously the team here in

322

00:12:06,110 --> 00:12:05,100

Mission Control Houston and that the