



1  
00:00:07,130 --> 00:00:04,430  
and station Houston this is Chris for

2  
00:00:09,620 --> 00:00:07,140  
the crew how do you guys hear me so you

3  
00:00:11,180 --> 00:00:09,630  
have you loud and clear how about great

4  
00:00:13,820 --> 00:00:11,190  
we have you loud and clear and we have

5  
00:00:15,560 --> 00:00:13,830  
the whole you left team here assembled

6  
00:00:17,480 --> 00:00:15,570  
in Figure one and we're really glad you

7  
00:00:19,090 --> 00:00:17,490  
guys can join us so as everyone knows

8  
00:00:21,470 --> 00:00:19,100  
today we're going to continue our

9  
00:00:23,540 --> 00:00:21,480  
time-honored tradition by hanging the

10  
00:00:24,800 --> 00:00:23,550  
the mission patch here in the Space

11  
00:00:27,890 --> 00:00:24,810  
Station flight control room

12  
00:00:29,509 --> 00:00:27,900  
and we will honor just a couple of

13  
00:00:31,640 --> 00:00:29,519

people to climb this ladder to hang the

14

00:00:33,440 --> 00:00:31,650

odd the plaques but I do want to

15

00:00:35,750 --> 00:00:33,450

emphasize it's more than just about the

16

00:00:37,069 --> 00:00:35,760

two people that are going to get a climb

17

00:00:39,260 --> 00:00:37,079

the ladder today it's really about a

18

00:00:40,549 --> 00:00:39,270

team effort it takes more than just just

19

00:00:42,500 --> 00:00:40,559

two people to pull off a mission like

20

00:00:44,330 --> 00:00:42,510

this if you look around you'll see all

21

00:00:45,979 --> 00:00:44,340

the people that were involved just in

22

00:00:48,260 --> 00:00:45,989

the Mission Operations portion of you

23

00:00:50,930 --> 00:00:48,270

left seven so today is really

24

00:00:53,270 --> 00:00:50,940

celebration about the entire team effort

25

00:00:55,369 --> 00:00:53,280

and a recognition of all of your efforts

26

00:00:58,220 --> 00:00:55,379

to make this flight a success and so uh

27

00:01:00,920 --> 00:00:58,230

Ron we appreciate you and your crew

28

00:01:02,779 --> 00:01:00,930

joining us for the ceremony today and we

29

00:01:04,549 --> 00:01:02,789

also have Bergen his crew here from

30

00:01:07,700 --> 00:01:04,559

Atlantis and we're really glad to have

31

00:01:10,520 --> 00:01:07,710

you guys here as well so uh one thing

32

00:01:12,560 --> 00:01:10,530

that I'll say about the cruise is we

33

00:01:14,270 --> 00:01:12,570

knew with this flight what they uh what

34

00:01:16,219 --> 00:01:14,280

the small shuttle crew saw is that there

35

00:01:19,100 --> 00:01:16,229

would be a much greater level of

36

00:01:20,719 --> 00:01:19,110

coordination and cooperation required

37

00:01:22,450 --> 00:01:20,729

between the two crews much more than we

38

00:01:25,640 --> 00:01:22,460

than we normally see on a seven-person

39

00:01:27,859 --> 00:01:25,650

shuttle assembly flight and it was very

40

00:01:30,440 --> 00:01:27,869

very gratifying to see both of these

41

00:01:32,690 --> 00:01:30,450

cruise functions seamlessly function

42

00:01:34,910 --> 00:01:32,700

really as one and accomplishing the the

43

00:01:36,770 --> 00:01:34,920

cargo transfer objectives and the EPA

44

00:01:39,399 --> 00:01:36,780

objectives so I just want to compliment

45

00:01:42,230 --> 00:01:39,409

you guys Fergie and your crew and Andre

46

00:01:44,210 --> 00:01:42,240

you and your crew on the accomplishments

47

00:01:45,319 --> 00:01:44,220

enough Rondon I'll turn it over to you

48

00:01:46,270 --> 00:01:45,329

if you have any words you'd like to

49

00:01:49,160 --> 00:01:46,280

share with us

50

00:01:51,679 --> 00:01:49,170

Thanks it was it was absolutely amazing

51  
00:01:54,889 --> 00:01:51,689  
to see this this smooth oiled machine

52  
00:01:58,910 --> 00:01:54,899  
show up on ball hey guys just did you -

53  
00:02:01,039 --> 00:01:58,920  
outstanding and yeah it was we realized

54  
00:02:04,010 --> 00:02:01,049  
as we were gone through it all though

55  
00:02:05,600 --> 00:02:04,020  
this was a very historic moment in our

56  
00:02:07,640 --> 00:02:05,610  
space program and

57  
00:02:09,590 --> 00:02:07,650  
we're very very honored to be a to be a

58  
00:02:12,290 --> 00:02:09,600  
part of it to have a small piece of it

59  
00:02:15,320 --> 00:02:12,300  
and just watching those guys and

60  
00:02:17,120 --> 00:02:15,330  
watching you guys on the ground you know

61  
00:02:19,010 --> 00:02:17,130  
work together and just just like

62  
00:02:21,350 --> 00:02:19,020  
clockwork it was just absolutely amazing

63  
00:02:25,010 --> 00:02:21,360

so it was great to be part of it and I

64

00:02:28,400 --> 00:02:25,020

raised my rehydrated apple cider bag of

65

00:02:30,350 --> 00:02:28,410

apple cider to all of you great words

66

00:02:31,940 --> 00:02:30,360

Ron thank you very much and uh and

67

00:02:33,920 --> 00:02:31,950

Fergie uh I'll say to you and your crew

68

00:02:35,630 --> 00:02:33,930

much I know that uh especially for you

69

00:02:37,280 --> 00:02:35,640

guys being the smaller crew saw is you

70

00:02:38,570 --> 00:02:37,290

don't have to work extra hard we

71

00:02:40,550 --> 00:02:38,580

recognize that you guys had to work

72

00:02:42,260 --> 00:02:40,560

through a lot of your off-duty time to

73

00:02:44,270 --> 00:02:42,270

accomplish the you know the busy

74

00:02:46,970 --> 00:02:44,280

objectives that we set up for this

75

00:02:48,320 --> 00:02:46,980

mission and so again great great work to

76

00:02:50,810 --> 00:02:48,330

you guys I've heard you if you have any

77

00:02:52,640 --> 00:02:50,820

words to say you're welcome to I have

78

00:02:58,910 --> 00:02:52,650

one question asked we're on and hey Ron

79

00:03:01,400 --> 00:02:58,920

you there hey you still miss us you know

80

00:03:04,310 --> 00:03:01,410

you know we can I came I came this close

81

00:03:06,080 --> 00:03:04,320

when you guys on the day after you

82

00:03:09,050 --> 00:03:06,090

undocked when you're when you're getting

83

00:03:10,400 --> 00:03:09,060

ready yeah like the last on that we're

84

00:03:13,940 --> 00:03:10,410

gonna have together I was going to call

85

00:03:16,100 --> 00:03:13,950

up and say hey uh Atlanta station for

86

00:03:20,080 --> 00:03:16,110

stowage we've been looking for Sandy for

87

00:03:26,479 --> 00:03:25,040

I decided against it first on what what

88

00:03:28,550 --> 00:03:26,489

a lot of people don't know you know the

89

00:03:30,560 --> 00:03:28,560

the icon loop up there is a little funny

90

00:03:34,340 --> 00:03:30,570

that dock icon really only works in one

91

00:03:34,880 --> 00:03:34,350

direction so so after we got the hatches

92

00:03:36,740 --> 00:03:34,890

closed

93

00:03:38,960 --> 00:03:36,750

you know Ron could really only talk to

94

00:03:42,320 --> 00:03:38,970

us discreetly but we could not talk to

95

00:03:44,030 --> 00:03:42,330

him discreetly so Ron would Ron would

96

00:03:46,520 --> 00:03:44,040

call us you know periodically after we

97

00:03:48,320 --> 00:03:46,530

had had closed the had just before we

98

00:03:49,729 --> 00:03:48,330

went to bed and and he you know he knew

99

00:03:51,410 --> 00:03:49,739

that we really couldn't reply to him

100

00:03:54,080 --> 00:03:51,420

without the whole world hearing so he

101  
00:03:57,650 --> 00:03:54,090  
would then he you know I think he

102  
00:04:00,020 --> 00:03:57,660  
started out very slowly he said hey you

103  
00:04:02,000 --> 00:04:00,030  
there and I'm you know and he says I

104  
00:04:03,949 --> 00:04:02,010  
know you can't talk to me he says just

105  
00:04:05,570 --> 00:04:03,959  
give me one my click if you're still

106  
00:04:06,470 --> 00:04:05,580  
there so we give him the one my click

107  
00:04:22,430 --> 00:04:06,480  
and

108  
00:04:24,800 --> 00:04:22,440  
somebody behind the cameraman going like

109  
00:04:26,180 --> 00:04:24,810  
this and we couldn't reply but you know

110  
00:04:29,060 --> 00:04:26,190  
I'll tell you Iran we he just had the

111  
00:04:30,470 --> 00:04:29,070  
best time with you you and Mike and you

112  
00:04:33,200 --> 00:04:30,480  
know our Russian friends and then of

113  
00:04:35,090 --> 00:04:33,210

course at Sochi you know I think it's

114

00:04:36,950 --> 00:04:35,100

kind of ironic out here we are back here

115

00:04:39,379 --> 00:04:36,960

and and we're gonna do a lot of the

116

00:04:41,030 --> 00:04:39,389

talking but in reality you deserve and

117

00:04:42,520 --> 00:04:41,040

your crew deserve most of the credit for

118

00:04:45,140 --> 00:04:42,530

pulling this whole thing off

119

00:04:46,370 --> 00:04:45,150

you know I don't know what to say other

120

00:04:47,990 --> 00:04:46,380

than we're really looking forward to

121

00:04:49,940 --> 00:04:48,000

seeing it back here and we really do

122

00:04:52,010 --> 00:04:49,950

miss you Ron and we miss you and your

123

00:04:53,390 --> 00:04:52,020

crew and we had a blast up there I'm

124

00:04:56,390 --> 00:04:53,400

glad that we pulled the whole thing off

125

00:04:59,210 --> 00:04:56,400

without without any glaring omissions or

126  
00:05:02,120 --> 00:04:59,220  
any major malfunctions aside from a an

127  
00:05:03,830 --> 00:05:02,130  
itch eg PC or two so you know keep up

128  
00:05:06,650 --> 00:05:03,840  
the great work Ron and to the team here

129  
00:05:08,990 --> 00:05:06,660  
who who's come out to to just you know

130  
00:05:11,600 --> 00:05:09,000  
recognize this event thank you you know

131  
00:05:13,730 --> 00:05:11,610  
you and we've tried to we've tried to

132  
00:05:15,230 --> 00:05:13,740  
kind of make this our mantra you know

133  
00:05:17,210 --> 00:05:15,240  
every time we go flying we take a little

134  
00:05:20,060 --> 00:05:17,220  
piece of you with us and we hopefully

135  
00:05:21,290 --> 00:05:20,070  
maybe just brought you along a little

136  
00:05:22,760 --> 00:05:21,300  
bit more on this flight fortunate was a

137  
00:05:25,460 --> 00:05:22,770  
quiet flight we had a chance to allow

138  
00:05:27,350 --> 00:05:25,470

everyone to take it all in and you know

139

00:05:28,640 --> 00:05:27,360

just cherish that the last opportunity

140

00:05:30,200 --> 00:05:28,650

we had to have the space shuttle and

141

00:05:31,520 --> 00:05:30,210

then realized how fortunate we were even

142

00:05:33,500 --> 00:05:31,530

though it's sad to see it go away how

143

00:05:36,260 --> 00:05:33,510

fortunate we were to have it to begin

144

00:05:44,520 --> 00:05:36,270

than we had for 30 years so Ron I'm all

145

00:05:49,480 --> 00:05:47,530

I felt like we just picked up where we

146

00:05:51,100 --> 00:05:49,490

left off two years ago and for me it's

147

00:05:52,300 --> 00:05:51,110

gonna just be a really special memory

148

00:05:54,520 --> 00:05:52,310

and I hope it is for you it's just

149

00:05:59,740 --> 00:05:54,530

really a lot of fun and hopefully

150

00:06:01,870 --> 00:05:59,750

appreciated the socks that's gonna say

151  
00:06:03,490 --> 00:06:01,880  
yeah thanks again to yaa we really do

152  
00:06:04,590 --> 00:06:03,500  
mean that you guys were our fifth crew

153  
00:06:07,390 --> 00:06:04,600  
member we couldn't have done it without

154  
00:06:09,010 --> 00:06:07,400  
without the both control teams because

155  
00:06:10,720 --> 00:06:09,020  
there were the times where you just

156  
00:06:12,610 --> 00:06:10,730  
don't want to be doing things single

157  
00:06:14,050 --> 00:06:12,620  
string and our only second string was

158  
00:06:15,610 --> 00:06:14,060  
you guys watching over us and we're

159  
00:06:17,230 --> 00:06:15,620  
confident that we could do it with that

160  
00:06:18,970 --> 00:06:17,240  
and it worked out great because of all

161  
00:06:21,160 --> 00:06:18,980  
the efforts you guys the looking over us

162  
00:06:24,390 --> 00:06:21,170  
setting things up for us and letting us

163  
00:06:27,640 --> 00:06:24,400

let us hit the ball right we needed to

164

00:06:29,860 --> 00:06:27,650

thanks for all your help support we had

165

00:06:31,270 --> 00:06:29,870

a you know we really needed the extra

166

00:06:33,760 --> 00:06:31,280

help you know we just four of us up

167

00:06:35,200 --> 00:06:33,770

there and then Ronnie's crew they just

168

00:06:36,880 --> 00:06:35,210

were superb so we can't thank you enough

169

00:06:40,590 --> 00:06:36,890

we hope we tried to give you at least

170

00:06:43,650 --> 00:06:42,270

there's probably more to come hopefully

171

00:06:45,979 --> 00:06:43,660

Space Center Houston you'll get to see a

172

00:06:51,659 --> 00:06:45,989

little more

173

00:06:53,399 --> 00:06:51,669

and it is awesome great words thank you

174

00:06:55,859 --> 00:06:53,409

very much before I get into the

175

00:06:57,029 --> 00:06:55,869

individual team recognition I'd like to

176

00:06:59,459 --> 00:06:57,039

sort of recount a little bit of this

177

00:07:01,320 --> 00:06:59,469

amazing journey that we've all traveled

178

00:07:03,299 --> 00:07:01,330

on the past twelve months if you think

179

00:07:03,899 --> 00:07:03,309

about a year ago this flight didn't even

180

00:07:06,929 --> 00:07:03,909

exist

181

00:07:08,969 --> 00:07:06,939

it was the STS 335 rescue mission and

182

00:07:12,029 --> 00:07:08,979

really it was just a gleam and Mike

183

00:07:14,040 --> 00:07:12,039

Suffredini XY's back then and and then

184

00:07:16,379 --> 00:07:14,050

here we are fast-forward through twelve

185

00:07:18,419 --> 00:07:16,389

incredibly busy months of preparation

186

00:07:20,549 --> 00:07:18,429

and look at what we accomplished we you

187

00:07:22,079 --> 00:07:20,559

know we delivered 10,000 pounds of cargo

188

00:07:24,119 --> 00:07:22,089

to the station

189

00:07:25,679 --> 00:07:24,129

we accomplished an EPA that returned the

190

00:07:28,019 --> 00:07:25,689

filled pump module so it can be examined

191

00:07:29,759 --> 00:07:28,029

and we also delivered the robotic

192

00:07:32,399 --> 00:07:29,769

refueling module which is going to

193

00:07:35,339 --> 00:07:32,409

expand stations a technology

194

00:07:37,019 --> 00:07:35,349

demonstration into the realm of on-orbit

195

00:07:39,269 --> 00:07:37,029

satellite refueling so that's going to

196

00:07:41,699 --> 00:07:39,279

be a really neat thing we we also

197

00:07:43,829 --> 00:07:41,709

brought back you know tons of cargo to

198

00:07:45,269 --> 00:07:43,839

clear off tempio to make the stowage

199

00:07:47,219 --> 00:07:45,279

problem a little bit a little bit better

200

00:07:49,350 --> 00:07:47,229

on station and uh so we've left station

201  
00:07:53,100 --> 00:07:49,360  
in a lot better shape than it was before

202  
00:07:56,759 --> 00:07:53,110  
this mission and we achieved a key

203  
00:07:59,219 --> 00:07:56,769  
station programmatic goal of resupplying

204  
00:08:01,350 --> 00:07:59,229  
the station through calendar year 2012

205  
00:08:02,819 --> 00:08:01,360  
that's a really key day because as we go

206  
00:08:05,100 --> 00:08:02,829  
into this transition from shuttle

207  
00:08:08,009 --> 00:08:05,110  
resupply to a commercial vehicle

208  
00:08:10,019 --> 00:08:08,019  
resupply we've we've essentially

209  
00:08:12,299 --> 00:08:10,029  
provided important schedule relief to

210  
00:08:14,339 --> 00:08:12,309  
the station program so you know the

211  
00:08:16,769 --> 00:08:14,349  
pressure is not quite as as great as it

212  
00:08:19,499 --> 00:08:16,779  
was on our our new commercial providers

213  
00:08:21,600 --> 00:08:19,509

as it was before this flight so really

214

00:08:23,309 --> 00:08:21,610

great accomplishment and again it would

215

00:08:25,259 --> 00:08:23,319

not have been possible without the work

216

00:08:27,779 --> 00:08:25,269

of the entire team to put this flight

217

00:08:29,069 --> 00:08:27,789

together and uh you know things went

218

00:08:30,719 --> 00:08:29,079

very smoothly on orbit we were very

219

00:08:33,209 --> 00:08:30,729

fortunate that we didn't have any major

220

00:08:35,159 --> 00:08:33,219

major failures as far you mentioned when

221

00:08:36,719 --> 00:08:35,169

we when we stood up our team I guess

222

00:08:38,579 --> 00:08:36,729

that was about nine months ago nine or

223

00:08:40,829 --> 00:08:38,589

ten months ago one of one of my initial

224

00:08:43,050 --> 00:08:40,839

concerns that the Kuantan I shared was

225

00:08:46,050 --> 00:08:43,060

how do you motivate people to prepare

226

00:08:47,280 --> 00:08:46,060

for a flight that is not even funded yet

227

00:08:48,600 --> 00:08:47,290

I mean there were some serious doubts of

228

00:08:50,999 --> 00:08:48,610

whether this flight would would even

229

00:08:53,069 --> 00:08:51,009

take place and and and we knew it would

230

00:08:55,199 --> 00:08:53,079

be a lot of work on a shortened template

231

00:08:57,540 --> 00:08:55,209

to get ready to fly this flight but it

232

00:08:58,579 --> 00:08:57,550

was so gratifying to see people the

233

00:09:00,650 --> 00:08:58,589

trainers

234

00:09:02,869 --> 00:09:00,660

the mission analysts and flight control

235

00:09:04,369 --> 00:09:02,879

team the crew everybody just jumped

236

00:09:06,499 --> 00:09:04,379

right into the training and preparing

237

00:09:07,970 --> 00:09:06,509

they didn't spend a lot of you know time

238

00:09:10,069 --> 00:09:07,980

worrying about is this flight going to

239

00:09:13,579 --> 00:09:10,079

go or not you know people just just

240

00:09:15,590 --> 00:09:13,589

really gave it 110% effort and it was a

241

00:09:17,509 --> 00:09:15,600

very disciplined effort because if we

242

00:09:18,379 --> 00:09:17,519

had waited until the funding was secured

243

00:09:20,239 --> 00:09:18,389

when was that

244

00:09:21,619 --> 00:09:20,249

like January and we finally got word

245

00:09:24,470 --> 00:09:21,629

that we had the money to fly this flight

246

00:09:25,610 --> 00:09:24,480

up the money in didn't bank later it was

247

00:09:28,910 --> 00:09:25,620

later than that I mean think about it we

248

00:09:30,530 --> 00:09:28,920

had waited and told that point to to

249

00:09:33,019 --> 00:09:30,540

really start training and preparing an

250

00:09:36,019 --> 00:09:33,029

earnest for this flight it wouldn't

251  
00:09:38,059 --> 00:09:36,029  
happen so again I can't thank you enough

252  
00:09:40,309 --> 00:09:38,069  
for uh for the hard work that you guys

253  
00:09:41,840 --> 00:09:40,319  
did and the real focused dedication that

254  
00:09:44,210 --> 00:09:41,850  
you did to prepare for this flight and

255  
00:09:45,290 --> 00:09:44,220  
also another thing that we sort of

256  
00:09:47,449 --> 00:09:45,300  
touched upon before the level of

257  
00:09:49,100 --> 00:09:47,459  
coordination between the two crews that

258  
00:09:52,519 --> 00:09:49,110  
was required to make this a success with

259  
00:09:55,129 --> 00:09:52,529  
such a small shuttle crew compliment we

260  
00:09:57,199 --> 00:09:55,139  
had a similar requirement for

261  
00:09:58,970 --> 00:09:57,209  
coordination with the you left seven

262  
00:10:01,759 --> 00:09:58,980  
leads and their increment 28

263  
00:10:03,769 --> 00:10:01,769

counterparts because again the small

264

00:10:05,720 --> 00:10:03,779

shuttle crew size meant that the station

265

00:10:07,759 --> 00:10:05,730

crew was doing the EBA it meant that we

266

00:10:10,400 --> 00:10:07,769

had to get you know really as far ahead

267

00:10:13,759 --> 00:10:10,410

as we could on many of our pre pack

268

00:10:16,129 --> 00:10:13,769

requirements and and other oru and IFM

269

00:10:18,379 --> 00:10:16,139

type activities before II left seven

270

00:10:20,840 --> 00:10:18,389

arrived so again the team really did a

271

00:10:24,679 --> 00:10:20,850

good job coordinating between the

272

00:10:27,079 --> 00:10:24,689

increment 2018 and and the u.s. 17 if we

273

00:10:29,090 --> 00:10:27,089

uh if the latter were a little bit

274

00:10:30,980 --> 00:10:29,100

bigger actually a lot bigger I'd like to

275

00:10:32,720 --> 00:10:30,990

get everybody up there because yet

276

00:10:35,389 --> 00:10:32,730

really on this flight since we didn't

277

00:10:36,769 --> 00:10:35,399

have a single failure that resulted in

278

00:10:39,019 --> 00:10:36,779

any of single discipline having to pull

279

00:10:40,340 --> 00:10:39,029

our bacon out of the fire it really

280

00:10:42,110 --> 00:10:40,350

would be nice to let everybody go up the

281

00:10:44,090 --> 00:10:42,120

ladder but um but because we didn't have

282

00:10:47,059 --> 00:10:44,100

one of those moments I sort of had to

283

00:10:48,889 --> 00:10:47,069

look at and what what teams besides

284

00:10:50,990 --> 00:10:48,899

doing great like everybody else what

285

00:10:53,990 --> 00:10:51,000

teams had to come up with with real

286

00:10:57,079 --> 00:10:54,000

innovations new ways of doing business

287

00:10:58,460 --> 00:10:57,089

and new techniques in order to make this

288

00:11:00,889 --> 00:10:58,470

flight happen we've already talked about

289

00:11:03,139 --> 00:11:00,899

the small crew sauce now that was just

290

00:11:06,350 --> 00:11:03,149

the key key limiting factor for this

291

00:11:08,540 --> 00:11:06,360

mission and so for the team that's going

292

00:11:11,180 --> 00:11:08,550

to hang the cargo element patch I've

293

00:11:13,250 --> 00:11:11,190

selected the team that managed

294

00:11:14,510 --> 00:11:13,260

what was the key commodity for this

295

00:11:16,490 --> 00:11:14,520

mission and came up with some real

296

00:11:18,380 --> 00:11:16,500

innovative ideas and that's our joint

297

00:11:20,090 --> 00:11:18,390

shuttle and station flight planning team

298

00:11:22,250 --> 00:11:20,100

so if I could have Greg Whitney

299

00:11:24,350 --> 00:11:22,260

represent the FAO s and Roy Ani

300

00:11:48,360 --> 00:11:24,360

misrepresenting the ops plans to come on

301

00:11:52,930 --> 00:11:51,400

all right so let's go back in time just

302

00:11:54,460 --> 00:11:52,940

a little bit we uh

303

00:11:56,139 --> 00:11:54,470

we when that's when this flight was

304

00:11:58,960 --> 00:11:56,149

baseline it was a flight day for long

305

00:12:00,820 --> 00:11:58,970

whoo that meant no EBA and it meant that

306

00:12:03,639 --> 00:12:00,830

the cargo transfer time line was way

307

00:12:06,310 --> 00:12:03,649

broke and Greg and his team basically

308

00:12:08,410 --> 00:12:06,320

took the standard shuttle predock and

309

00:12:10,570 --> 00:12:08,420

post undock timeline and they ripped it

310

00:12:13,800 --> 00:12:10,580

up they started to stretch and they they

311

00:12:16,300 --> 00:12:13,810

put in just the mandatory minimum items

312

00:12:17,470 --> 00:12:16,310

into the plan that were necessary in

313

00:12:19,420 --> 00:12:17,480

order to achieve a flight day three

314

00:12:21,280 --> 00:12:19,430

docking and they weren't closely with

315

00:12:23,290 --> 00:12:21,290

the crew to come up with the innovative

316

00:12:24,850 --> 00:12:23,300

ideas like like sleeping in late on

317

00:12:26,769 --> 00:12:24,860

launch day and staying up late in order

318

00:12:28,810 --> 00:12:26,779

to get caught up on flight day one and

319

00:12:30,490 --> 00:12:28,820

then to get just the minimum things

320

00:12:32,019 --> 00:12:30,500

accomplished on flight day two to set us

321

00:12:34,470 --> 00:12:32,029

up for bonding for the next day so

322

00:12:37,120 --> 00:12:34,480

thanks to your innovation and your team

323

00:12:38,769 --> 00:12:37,130

you know we were able to get the EBA and

324

00:12:41,290 --> 00:12:38,779

but that still didn't solve all our

325

00:12:43,690 --> 00:12:41,300

problems because as we came into f4 as

326

00:12:45,490 --> 00:12:43,700

both of y'all made abundantly clear we

327

00:12:48,100 --> 00:12:45,500

we still were broken on the cargo

328

00:12:49,750 --> 00:12:48,110

transfer timeline and you guys provided

329

00:12:51,790 --> 00:12:49,760

the inputs that we that we needed to go

330

00:12:53,560 --> 00:12:51,800

ask for the Russian crew time that was

331

00:12:57,069 --> 00:12:53,570

just essential to make this flight of

332

00:13:00,819 --> 00:12:57,079

success and and we also asked for relief

333

00:13:03,550 --> 00:13:00,829

on our minimum return from it in the

334

00:13:04,930 --> 00:13:03,560

mplm from 100% down to 70% so by doing

335

00:13:07,600 --> 00:13:04,940

those two things and then highlighting

336

00:13:08,590 --> 00:13:07,610

the problem you guys really helped to

337

00:13:11,350 --> 00:13:08,600

ensure that the mission would be a

338

00:13:13,810 --> 00:13:11,360

success and then ROI on you maintain the

339

00:13:17,139 --> 00:13:13,820

focus as we move from from planning to

340

00:13:19,090 --> 00:13:17,149

the beginning of the real execution

341

00:13:21,940 --> 00:13:19,100

which really started when our expedition

342

00:13:24,130 --> 00:13:21,950

28 crew arrived on orbit Roy Anne she

343

00:13:27,610 --> 00:13:24,140

talked the the road to plan to make sure

344

00:13:29,050 --> 00:13:27,620

that all our EBA requirements got done

345

00:13:31,690 --> 00:13:29,060

so we'd be ready in time to support the

346

00:13:33,730 --> 00:13:31,700

EBA and she was the central coordinator

347

00:13:36,250 --> 00:13:33,740

for all the road 2 items to pre pack and

348

00:13:37,660 --> 00:13:36,260

I attend activities and then as we as we

349

00:13:40,660 --> 00:13:37,670

went into the actual lf7

350

00:13:42,490 --> 00:13:40,670

timeline she off on her own worked with

351  
00:13:44,740 --> 00:13:42,500  
the increment 2018 to have that list of

352  
00:13:47,319 --> 00:13:44,750  
get heads for the extension day and when

353  
00:13:49,180 --> 00:13:47,329  
the extension day became reality it was

354  
00:13:51,100 --> 00:13:49,190  
ready and it was not just a single day

355  
00:13:53,500 --> 00:13:51,110  
that we plugged in it was basically

356  
00:13:57,069 --> 00:13:53,510  
rework of several of the days dropping

357  
00:13:59,489 --> 00:13:57,079  
in high-priority science dropping in IFM

358  
00:14:02,769 --> 00:13:59,499  
activities as well as additional

359  
00:14:05,229 --> 00:14:02,779  
stowage and organizational activities on

360  
00:14:06,999 --> 00:14:05,239  
the station timeline so again thanks to

361  
00:14:09,249 --> 00:14:07,009  
both y'all's hard work the flight was

362  
00:14:11,769 --> 00:14:09,259  
was a great success so Greg and

363  
00:14:14,229 --> 00:14:11,779

recognition of you and they basically

364

00:14:15,789 --> 00:14:14,239

enabling a lot of the key objectives to

365

00:14:18,219 --> 00:14:15,799

be accomplished on this on this flight

366

00:14:19,929 --> 00:14:18,229

I'd like you to hang the the cargo

367

00:14:21,999 --> 00:14:19,939

element patch Andrew Leon I'd like you

368

00:14:26,139 --> 00:14:22,009

to hang the ladder in recognition of

369

00:14:28,959 --> 00:14:26,149

your the key job that you did in making

370

00:14:30,399 --> 00:14:28,969

the mission which he enabled making it

371

00:15:51,630 --> 00:14:30,409

even more successful than it would have

372

00:15:57,730 --> 00:15:54,850

all right so for the crew patch we have

373

00:15:59,920 --> 00:15:57,740

another another team that that had to

374

00:16:01,240 --> 00:15:59,930

innovate there was something something

375

00:16:04,900 --> 00:16:01,250

unique about this mission and that we

376

00:16:07,390 --> 00:16:04,910

were flying to mplm a p.m. mm and the

377

00:16:10,750 --> 00:16:07,400

mplm itself and we had a really neat

378

00:16:13,840 --> 00:16:10,760

technical effort that began early on in

379

00:16:16,390 --> 00:16:13,850

this mission to to identify a way to

380

00:16:17,950 --> 00:16:16,400

operate both the PMM and the mplm

381

00:16:20,170 --> 00:16:17,960

simultaneously everyone here knows that

382

00:16:22,720 --> 00:16:20,180

the station computers can't talk to both

383

00:16:25,840 --> 00:16:22,730

simultaneously so so we had a team led

384

00:16:29,050 --> 00:16:25,850

by our our a CEO Mike Meyer and our Odin

385

00:16:31,510 --> 00:16:29,060

Todd Kwas knee and they they developed

386

00:16:34,060 --> 00:16:31,520

the the procedures and techniques that

387

00:16:36,820 --> 00:16:34,070

we would use and then they tested them

388

00:16:38,260 --> 00:16:36,830

in the ort environment to make sure that

389

00:16:40,120 --> 00:16:38,270

all the commands would work right they

390

00:16:42,970 --> 00:16:40,130

integrated all those procedures and that

391

00:16:44,410 --> 00:16:42,980

really happened I won't say in the

392

00:16:46,840 --> 00:16:44,420

background because we did talk about it

393

00:16:48,880 --> 00:16:46,850

at gops but it did not require a lot of

394

00:16:51,220 --> 00:16:48,890

management on my part and we had another

395

00:16:54,610 --> 00:16:51,230

key key component of that our lead ii

396

00:16:56,140 --> 00:16:54,620

CLIs elisa Truscott she also was

397

00:16:59,710 --> 00:16:56,150

involved with this development because

398

00:17:01,720 --> 00:16:59,720

we had to satisfy her smoke loss of

399

00:17:03,490 --> 00:17:01,730

smoke detection flight rule criteria in

400

00:17:06,699 --> 00:17:03,500

order to put the bed the crew to bed at

401  
00:17:07,600 --> 00:17:06,709  
night so elisa played a key role in this

402  
00:17:09,939 --> 00:17:07,610  
development as well

403  
00:17:12,250 --> 00:17:09,949  
in fact our baseline plan had the crew

404  
00:17:15,370 --> 00:17:12,260  
closing the PMM hatch every night and

405  
00:17:17,350 --> 00:17:15,380  
alisa disagreed and she wasn't she

406  
00:17:18,880 --> 00:17:17,360  
wasn't reluctant or hesitant to speak up

407  
00:17:21,160 --> 00:17:18,890  
with her disagreement but more than just

408  
00:17:24,939 --> 00:17:21,170  
disagreeing she provided solid rationale

409  
00:17:26,980 --> 00:17:24,949  
including previous flight precedence for

410  
00:17:30,400 --> 00:17:26,990  
leaving the hatches open so it was just

411  
00:17:33,000 --> 00:17:30,410  
overall just a great a great example of

412  
00:17:35,410 --> 00:17:33,010  
flight control systems knowledge and

413  
00:17:37,450 --> 00:17:35,420

coordination that made that happen and

414

00:17:39,250 --> 00:17:37,460

then in real time we did that procedure

415

00:17:41,530 --> 00:17:39,260

twice a day and it worked just

416

00:17:43,120 --> 00:17:41,540

fabulously and it was one of the again

417

00:17:44,530 --> 00:17:43,130

it was one of the enabling technologies

418

00:17:46,120 --> 00:17:44,540

that made this flight a success because

419

00:17:49,600 --> 00:17:46,130

if you can imagine the PMM

420

00:17:51,160 --> 00:17:49,610

had it been dark with you guys trying to

421

00:17:52,690 --> 00:17:51,170

go still cargo in the PMM but what about

422

00:17:53,710 --> 00:17:52,700

you probably I don't know that all for

423

00:17:55,330 --> 00:17:53,720

you guys want to made it back and

424

00:17:56,409 --> 00:17:55,340

someone might have gotten left left in

425

00:18:01,269 --> 00:17:56,419

there so uh

426  
00:18:27,520 --> 00:18:01,279  
so so I'm like Todd and Mike and Lisa to

427  
00:18:27,530 --> 00:20:36,159  
you to climb the ladder

428  
00:20:39,580 --> 00:20:37,659  
I do want to specifically call out

429  
00:20:41,590 --> 00:20:39,590  
thanks to the the orbit one flight

430  
00:20:43,390 --> 00:20:41,600  
director Jerry Jason and his team that

431  
00:20:45,070 --> 00:20:43,400  
did a fabulous job on this flight in

432  
00:20:46,810 --> 00:20:45,080  
orbit three Courtenay McMillan on the

433  
00:20:48,250 --> 00:20:46,820  
planning team you guys also had

434  
00:20:50,169 --> 00:20:48,260  
everything just set up perfectly for us

435  
00:20:52,060 --> 00:20:50,179  
every day so thanks to all the teams

436  
00:20:54,159 --> 00:20:52,070  
that made this flight possible leaving

437  
00:20:56,830 --> 00:20:54,169  
with the with a final thought the the

438  
00:20:59,590 --> 00:20:56,840

baton is now handed off from the shuttle

439

00:21:01,590 --> 00:20:59,600

team to the station team so now you guys

440

00:21:04,870 --> 00:21:01,600

the Space Station flight control team

441

00:21:06,970 --> 00:21:04,880

you are responsible for not only the

442

00:21:09,610 --> 00:21:06,980

crews safety on-orbit when you come in

443

00:21:12,070 --> 00:21:09,620

but really you have the hands you have

444

00:21:14,320 --> 00:21:12,080

in your hands that the fate of the US

445

00:21:16,120 --> 00:21:14,330

human spaceflight program so never

446

00:21:31,950 --> 00:21:16,130

forget that when you come into this room

447

00:21:38,649 --> 00:21:34,680

appreciate everybody for coming out this

448

00:21:41,740 --> 00:21:38,659

is certainly a very special occasion one

449

00:21:43,990 --> 00:21:41,750

of the most enjoyable parts of my job as

450

00:21:47,019 --> 00:21:44,000

the lead flight director is the honor

451  
00:21:50,230 --> 00:21:47,029  
and privilege of celebrating spine group

452  
00:21:53,200 --> 00:21:50,240  
of people that are in you all who

453  
00:21:55,450 --> 00:21:53,210  
support human spaceflight sport shuttle

454  
00:21:58,600 --> 00:21:55,460  
programs well Space Station program and

455  
00:22:01,180 --> 00:21:58,610  
so this is I consider a very happy

456  
00:22:02,830 --> 00:22:01,190  
occasion and just to follow on to a lot

457  
00:22:05,500 --> 00:22:02,840  
of the words that were spoken in Ficker

458  
00:22:09,190 --> 00:22:05,510  
one the entire team did a tremendous job

459  
00:22:11,680 --> 00:22:09,200  
and so we appreciate what what everybody

460  
00:22:14,649 --> 00:22:11,690  
has done the contributions that that

461  
00:22:16,750 --> 00:22:14,659  
everyone has made before I say a few

462  
00:22:19,899 --> 00:22:16,760  
more things let me turn it over to our

463  
00:22:23,289 --> 00:22:19,909

crew to make a few remarks and then then

464

00:22:26,049 --> 00:22:23,299

we'll continue thanks for watching well

465

00:22:27,610 --> 00:22:26,059

first of all you know we certainly could

466

00:22:30,100 --> 00:22:27,620

have done it about without all of you

467

00:22:33,450 --> 00:22:30,110

and and I think if we tried we tried

468

00:22:35,950 --> 00:22:33,460

desperately to recognize everyone's

469

00:22:37,269 --> 00:22:35,960

contribution to what not just this space

470

00:22:39,100 --> 00:22:37,279

shuttle flight but to the overall

471

00:22:40,750 --> 00:22:39,110

success of the space shuttle program and

472

00:22:42,850 --> 00:22:40,760

of course we would have loved to thank

473

00:22:45,370 --> 00:22:42,860

everybody personally on orbit we hit up

474

00:22:46,539 --> 00:22:45,380

as many folks as we can but you know

475

00:22:49,720 --> 00:22:46,549

I've said this before and I'll say it

476

00:22:51,490 --> 00:22:49,730

again you know every time we go we take

477

00:22:54,549 --> 00:22:51,500

a little piece of every one of you with

478

00:22:56,649 --> 00:22:54,559

us you know you're the reason that we we

479

00:22:59,620 --> 00:22:56,659

get up there and and the missions seem

480

00:23:01,720 --> 00:22:59,630

to go as seamlessly as they do you know

481

00:23:04,149 --> 00:23:01,730

we tell the folks at KSC this and we're

482

00:23:06,460 --> 00:23:04,159

going to tell you you know you make the

483

00:23:10,269 --> 00:23:06,470

impossible look routine day in and day

484

00:23:12,940 --> 00:23:10,279

out you know we all and I've spent some

485

00:23:14,649 --> 00:23:12,950

time over on this console and when I

486

00:23:16,720 --> 00:23:14,659

when I said make a memory when you leave

487

00:23:18,220 --> 00:23:16,730

I meant every word of it because there's

488

00:23:19,450 --> 00:23:18,230

a little part of my heart that's in here

489

00:23:22,659 --> 00:23:19,460

too

490

00:23:24,730 --> 00:23:22,669

and you know I'll try to avoid the

491

00:23:26,320 --> 00:23:24,740

quotes you've all heard before but we

492

00:23:28,330 --> 00:23:26,330

are so fortunate to have had the space

493

00:23:30,639 --> 00:23:28,340

shuttle program for 30 years we are just

494

00:23:32,919 --> 00:23:30,649

so lucky we're so lucky that we have a

495

00:23:35,799 --> 00:23:32,929

nation that is focused on something like

496

00:23:37,480 --> 00:23:35,809

this and that we were able to just play

497

00:23:39,519 --> 00:23:37,490

a very small part of it and you know

498

00:23:40,810 --> 00:23:39,529

when it goes back generations I mean 40

499

00:23:42,250 --> 00:23:40,820

years ago they started thinking about

500

00:23:43,990 --> 00:23:42,260

the space shuttle and you and I and

501

00:23:46,630 --> 00:23:44,000

everybody in this room

502

00:23:49,390 --> 00:23:46,640

got to play just a little part of it for

503

00:23:51,250 --> 00:23:49,400

five years for five months for ten years

504

00:23:52,630 --> 00:23:51,260

and I'll tell you when I look back and I

505

00:23:55,330 --> 00:23:52,640

think about all this I'm gonna think

506

00:23:57,400 --> 00:23:55,340

about how lucky I was to play just a

507

00:23:59,380 --> 00:23:57,410

little part in this and when you know I

508

00:24:01,750 --> 00:23:59,390

go into a museum someday and we're all

509

00:24:03,850 --> 00:24:01,760

gonna do it we're all gonna go on the US

510

00:24:05,920 --> 00:24:03,860

tour and we're gonna take a summer of

511

00:24:07,390 --> 00:24:05,930

our lives and we are gonna go see every

512

00:24:11,110 --> 00:24:07,400

single space shuttle in every single

513

00:24:13,210 --> 00:24:11,120

museum from coast to coast you know it I

514

00:24:15,610 --> 00:24:13,220

know it and even if you won't admit it

515

00:24:18,700 --> 00:24:15,620

I'm telling you you're gonna do it and

516

00:24:19,840 --> 00:24:18,710

I'm looking forward to that time and you

517

00:24:21,310 --> 00:24:19,850

heard me say it on the runway that was

518

00:24:22,990 --> 00:24:21,320

kind of spontaneous remark that I made

519

00:24:24,820 --> 00:24:23,000

but it's so very true when you look for

520

00:24:27,190 --> 00:24:24,830

the little six-year-old young lady or

521

00:24:29,290 --> 00:24:27,200

young woman they're looking up at the

522

00:24:31,660 --> 00:24:29,300

Space Shuttle and just the look of WoW

523

00:24:33,550 --> 00:24:31,670

in their face and they're like that you

524

00:24:36,580 --> 00:24:33,560

mean we used to fly this around around

525

00:24:38,920 --> 00:24:36,590

the earth and that's gonna really that's

526

00:24:41,170 --> 00:24:38,930

gonna really make it all worth it to me

527

00:24:42,610 --> 00:24:41,180

so I won't belabor the whole thing you

528

00:24:45,400 --> 00:24:42,620

know I've kind of given my emotional

529

00:24:47,890 --> 00:24:45,410

speeches and I've had my moment but I'll

530

00:24:49,630 --> 00:24:47,900

tell you I'm gonna let the crew if they

531

00:24:52,450 --> 00:24:49,640

got a few moments to share with you as

532

00:24:54,940 --> 00:24:52,460

well but you know this this was it was

533

00:24:56,770 --> 00:24:54,950

very emotional for me you know it's but

534

00:24:58,390 --> 00:24:56,780

at the same time I'm just so honored to

535

00:25:14,970 --> 00:24:58,400

have been a part of it and thank you

536

00:25:19,630 --> 00:25:16,450

say something

537

00:25:22,659 --> 00:25:19,640

you'd bet you gotta say no I I I would

538

00:25:25,390 --> 00:25:22,669

just like to say please enjoy this savor

539

00:25:27,730 --> 00:25:25,400

it take it all in don't forget how you

540

00:25:29,529 --> 00:25:27,740

feel today how you felt when we landed

541

00:25:31,690 --> 00:25:29,539

how you felt during the mission when we

542

00:25:35,440 --> 00:25:31,700

got something done or we got ahead of

543

00:25:37,600 --> 00:25:35,450

schedule or we solved it GPC issue you

544

00:25:39,940 --> 00:25:37,610

know enjoy those moments because you

545

00:25:42,370 --> 00:25:39,950

know it's just been just a great program

546

00:25:44,680 --> 00:25:42,380

and we are just so glad that we got to

547

00:25:45,669 --> 00:25:44,690

share this with everybody you know tell

548

00:25:48,549 --> 00:25:45,679

your kids about it

549

00:25:50,770 --> 00:25:48,559

brag about it you deserve it I mean you

550

00:25:53,950 --> 00:25:50,780

guys pulled off a great mission at great

551  
00:25:56,220 --> 00:25:53,960  
program and we were just lucky enough to

552  
00:25:59,380 --> 00:25:56,230  
be a part of it and hopefully you know

553  
00:26:01,240 --> 00:25:59,390  
in 10 years or so and we all get back

554  
00:26:02,980 --> 00:26:01,250  
together somewhere and celebrate this

555  
00:26:05,590 --> 00:26:02,990  
you know you'll have those memories to

556  
00:26:07,740 --> 00:26:05,600  
talk about and we'll shoot the bowl with

557  
00:26:10,120 --> 00:26:07,750  
you one more time because it was just

558  
00:26:12,669 --> 00:26:10,130  
you know this was this is a once in a

559  
00:26:14,110 --> 00:26:12,679  
lifetime chance and so enjoy it we

560  
00:26:26,110 --> 00:26:14,120  
really enjoy and thank you thank you

561  
00:26:30,170 --> 00:26:28,850  
okay I've been honored to be a part of

562  
00:26:31,940 --> 00:26:30,180  
your team in a number different ways

563  
00:26:34,700 --> 00:26:31,950

over the years that started out as a

564

00:26:37,460 --> 00:26:34,710

mech one back room for the max console

565

00:26:39,110 --> 00:26:37,470

back on sts-27 and I've enjoyed every

566

00:26:41,000 --> 00:26:39,120

minute of it and I can still remember

567

00:26:43,280 --> 00:26:41,010

when I was a brand-new flight control I

568

00:26:45,530 --> 00:26:43,290

had a chance to go to the Cape and I

569

00:26:47,120 --> 00:26:45,540

went down there just before STS 26 and

570

00:26:48,260 --> 00:26:47,130

working with some brake tests and I

571

00:26:50,030 --> 00:26:48,270

remember beam out the press site when

572

00:26:51,500 --> 00:26:50,040

nobody was around and I looked out on

573

00:26:53,420 --> 00:26:51,510

the pad and I could see discovery on the

574

00:26:55,040 --> 00:26:53,430

pad and I thought I can't believe I'm a

575

00:26:56,810 --> 00:26:55,050

part of this I was so proud to be part

576

00:26:59,120 --> 00:26:56,820

of the space program and that has not

577

00:27:01,040 --> 00:26:59,130

diminished a minute in 25 years and

578

00:27:02,600 --> 00:27:01,050

working with you has been absolutely the

579

00:27:04,520 --> 00:27:02,610

highlight of my career and I really

580

00:27:06,770 --> 00:27:04,530

appreciate it all the wonderful work

581

00:27:08,750 --> 00:27:06,780

you've done for us and for making it

582

00:27:10,670 --> 00:27:08,760

really setting us up for success when we

583

00:27:12,320 --> 00:27:10,680

go out and fly so so thanks and I've

584

00:27:23,960 --> 00:27:12,330

absolutely enjoyed every minute working

585

00:27:28,580 --> 00:27:26,270

you know Fergie's mentioned this before

586

00:27:30,530 --> 00:27:28,590

and being a four person crew we really

587

00:27:31,820 --> 00:27:30,540

were relying on you guys to cover our

588

00:27:33,200 --> 00:27:31,830

backs because we were just running

589

00:27:35,240 --> 00:27:33,210

around here and there like crazy people

590

00:27:37,940 --> 00:27:35,250

for most the mission and you covered our

591

00:27:39,140 --> 00:27:37,950

backs and you did a great job just and

592

00:27:40,910 --> 00:27:39,150

the other thing that I've mentioned

593

00:27:42,350 --> 00:27:40,920

before that rear aide is the success of

594

00:27:44,060 --> 00:27:42,360

any mission is in the planning and

595

00:27:46,610 --> 00:27:44,070

because you guys did such a great job

596

00:27:48,020 --> 00:27:46,620

planning a really challenging mission we

597

00:27:50,150 --> 00:27:48,030

were able to pull it off and we can't

598

00:27:51,500 --> 00:27:50,160

thank you enough for that and the other

599

00:27:53,960 --> 00:27:51,510

thing I want to say is you guys have

600

00:27:56,480 --> 00:27:53,970

really cool jobs I mean working in the

601  
00:27:58,190 --> 00:27:56,490  
control center is really really cool I

602  
00:27:59,780 --> 00:27:58,200  
had the opportunity to be a Capcom back

603  
00:28:01,670 --> 00:27:59,790  
when the space station program was just

604  
00:28:03,560 --> 00:28:01,680  
starting up and I think that was one of

605  
00:28:05,060 --> 00:28:03,570  
the the most fun jobs I've had here at

606  
00:28:06,950 --> 00:28:05,070  
NASA I know you guys know this you are

607  
00:28:09,590 --> 00:28:06,960  
in the thick of it you are caught you

608  
00:28:11,510 --> 00:28:09,600  
are you are causing the action you are

609  
00:28:13,250 --> 00:28:11,520  
the action you are the ones that that

610  
00:28:15,890 --> 00:28:13,260  
bring the space program to life and

611  
00:28:17,090 --> 00:28:15,900  
carry it forward and as these guys

612  
00:28:19,310 --> 00:28:17,100  
mentioned hope you capture those

613  
00:28:20,900 --> 00:28:19,320

memories because without you we would

614

00:28:22,630 --> 00:28:20,910

not have been able to do this mission we

615

00:28:24,800 --> 00:28:22,640

have not been able to do the program and

616

00:28:26,210 --> 00:28:24,810

you're just a spectacular group of

617

00:28:30,170 --> 00:28:26,220

people and really you just have cool

618

00:28:32,000 --> 00:28:30,180

jobs thank you so much we wanted to make

619

00:28:34,160 --> 00:28:32,010

the mission fun for everybody on the

620

00:28:35,660 --> 00:28:34,170

ground as well we hope that we did we

621

00:28:51,299 --> 00:28:35,670

really enjoyed our interaction with you

622

00:28:57,850 --> 00:28:56,260

it's incredible this flight has meant so

623

00:28:59,890 --> 00:28:57,860

many different things to so many

624

00:29:01,210 --> 00:28:59,900

different people it represents different

625

00:29:03,370 --> 00:29:01,220

things to different people

626  
00:29:06,700 --> 00:29:03,380  
you know there are those outside of our

627  
00:29:08,710 --> 00:29:06,710  
family who think that this flight was an

628  
00:29:10,720 --> 00:29:08,720  
opportunity to keep the program going

629  
00:29:13,600 --> 00:29:10,730  
just a little bit longer perhaps in the

630  
00:29:16,270 --> 00:29:13,610  
vain hope that the policy decisions that

631  
00:29:19,240 --> 00:29:16,280  
led us to this moment in time might

632  
00:29:21,730 --> 00:29:19,250  
change there are those who felt that

633  
00:29:24,490 --> 00:29:21,740  
this flight was an opportunity for all

634  
00:29:27,370 --> 00:29:24,500  
of us to end our careers as shuttle

635  
00:29:29,680 --> 00:29:27,380  
flight controllers with a bit more

636  
00:29:32,409 --> 00:29:29,690  
dignity than then perhaps we otherwise

637  
00:29:34,720 --> 00:29:32,419  
might have without it there are those

638  
00:29:37,990 --> 00:29:34,730

that that see this flight as a necessary

639

00:29:40,810 --> 00:29:38,000

tool for ensuring the viability of the

640

00:29:44,260 --> 00:29:40,820

International Space Station program our

641

00:29:46,090 --> 00:29:44,270

leaders and those that we work for those

642

00:29:49,600 --> 00:29:46,100

we serve have made the decision that

643

00:29:52,390 --> 00:29:49,610

we're going to put considerable interest

644

00:29:54,520 --> 00:29:52,400

in commercial cargo providers and those

645

00:29:55,840 --> 00:29:54,530

companies are still learning many of the

646

00:29:57,909 --> 00:29:55,850

things that we have learned over the

647

00:30:00,549 --> 00:29:57,919

course the last 40 almost 50 years and

648

00:30:03,909 --> 00:30:00,559

so this flight represented very

649

00:30:05,760 --> 00:30:03,919

important mitigation of risk in the

650

00:30:09,460 --> 00:30:05,770

event that those companies that those

651  
00:30:11,830 --> 00:30:09,470  
newly emerging players experienced the

652  
00:30:13,659 --> 00:30:11,840  
delays and the setbacks that we

653  
00:30:16,330 --> 00:30:13,669  
experienced as we were learning how to

654  
00:30:17,980 --> 00:30:16,340  
do this business and for for those

655  
00:30:21,640 --> 00:30:17,990  
people this flight represents a very

656  
00:30:24,070 --> 00:30:21,650  
intelligent buy down of that risk but

657  
00:30:26,500 --> 00:30:24,080  
you know when I think about this mission

658  
00:30:29,590 --> 00:30:26,510  
when I think about the teams and and I

659  
00:30:30,460 --> 00:30:29,600  
think about this crew I see this flight

660  
00:30:33,760 --> 00:30:30,470  
forfor what

661  
00:30:37,960 --> 00:30:33,770  
I believe it really is which is a bold

662  
00:30:41,200 --> 00:30:37,970  
statement is a bold statement about who

663  
00:30:42,789 --> 00:30:41,210

we are and what we do you know the

664

00:30:45,490 --> 00:30:42,799

people that supported this mission many

665

00:30:47,740 --> 00:30:45,500

of them are facing new careers

666

00:30:49,630 --> 00:30:47,750

supporting International Space Station

667

00:30:54,730 --> 00:30:49,640

or some of the following follow-on

668

00:30:56,529 --> 00:30:54,740

programs like MPCV SLS and and so on for

669

00:30:58,630 --> 00:30:56,539

many of those people although they you

670

00:31:00,070 --> 00:30:58,640

know might be grateful to have those

671

00:31:02,230 --> 00:31:00,080

opportunities there's a tremendous

672

00:31:03,010 --> 00:31:02,240

amount of uncertainty associated with

673

00:31:04,930 --> 00:31:03,020

that

674

00:31:07,480 --> 00:31:04,940

there's still a lot of members of our

675

00:31:10,690 --> 00:31:07,490

family as we all know who don't

676  
00:31:13,269 --> 00:31:10,700  
necessarily have plan or provision after

677  
00:31:17,110 --> 00:31:13,279  
the normal phase of transition and

678  
00:31:20,380 --> 00:31:17,120  
retirement is completed and yet we've

679  
00:31:23,049 --> 00:31:20,390  
been asked by those we serve those we

680  
00:31:26,500 --> 00:31:23,059  
support those we work for to plan a

681  
00:31:28,899 --> 00:31:26,510  
mission to execute a mission with unique

682  
00:31:31,060 --> 00:31:28,909  
provisions unique circumstances unique

683  
00:31:34,000 --> 00:31:31,070  
attributes and to execute that mission

684  
00:31:36,730 --> 00:31:34,010  
just as flawlessly and just as safely

685  
00:31:37,960 --> 00:31:36,740  
and just as perfectly as we've executed

686  
00:31:41,620 --> 00:31:37,970  
the missions that have come before it

687  
00:31:45,159 --> 00:31:41,630  
and throughout that confusion throughout

688  
00:31:48,930 --> 00:31:45,169

that turmoil throughout the fear that

689

00:31:52,240 --> 00:31:48,940

many have felt you did not shirk your

690

00:31:55,389 --> 00:31:52,250

responsibilities to execute our human

691

00:31:58,659 --> 00:31:55,399

spaceflight Enterprise safely and with

692

00:32:01,799 --> 00:31:58,669

the utmost professionalism you did not

693

00:32:05,260 --> 00:32:01,809

neglect your responsibility to cover

694

00:32:08,710 --> 00:32:05,270

absolutely every angle and to keep

695

00:32:11,080 --> 00:32:08,720

fighting everything and everyone we have

696

00:32:13,870 --> 00:32:11,090

to fight with every flight in this war

697

00:32:16,510 --> 00:32:13,880

that we waged against gravity to keep

698

00:32:19,419 --> 00:32:16,520

fighting until we'll stop on this

699

00:32:22,000 --> 00:32:19,429

mission we never lost focus you never

700

00:32:24,010 --> 00:32:22,010

lost heart you never lost your morale

701  
00:32:26,169 --> 00:32:24,020  
you never lost the discipline with which

702  
00:32:29,350 --> 00:32:26,179  
we have been taught to come into this

703  
00:32:32,680 --> 00:32:29,360  
room and all of the surrounding rooms to

704  
00:32:35,019 --> 00:32:32,690  
do what we do and to me that is the most

705  
00:32:37,960 --> 00:32:35,029  
bold statement that could be made about

706  
00:32:40,029 --> 00:32:37,970  
this flight about this team and about

707  
00:32:43,029 --> 00:32:40,039  
this agency and the people that we

708  
00:32:45,010 --> 00:32:43,039  
support and for that I think you all

709  
00:33:07,379 --> 00:32:45,020  
deserve to be commended so let's give

710  
00:33:12,180 --> 00:33:10,379  
before we before we recognize the the

711  
00:33:13,529 --> 00:33:12,190  
individuals that that we're going to

712  
00:33:15,239 --> 00:33:13,539  
celebrate the individuals and teams

713  
00:33:16,859 --> 00:33:15,249

we're going to celebrate with the

714

00:33:18,330 --> 00:33:16,869

hanging of the plaque there are a couple

715

00:33:20,100 --> 00:33:18,340

of more acknowledgments I did want to

716

00:33:23,340 --> 00:33:20,110

give that I feel are tremendously

717

00:33:27,570 --> 00:33:23,350

important I want to say from the bottom

718

00:33:28,950 --> 00:33:27,580

of my heart a heartfelt thanks to the

719

00:33:31,529 --> 00:33:28,960

management of Mission Operations

720

00:33:33,479 --> 00:33:31,539

Directorate from the group level the

721

00:33:35,909 --> 00:33:33,489

group leads the branch chiefs the

722

00:33:38,279 --> 00:33:35,919

division Chiefs you know we have the

723

00:33:40,609 --> 00:33:38,289

honor of walking into this building

724

00:33:44,580 --> 00:33:40,619

whenever we have a chance to do that and

725

00:33:48,090 --> 00:33:44,590

fly spaceships but these people have

726  
00:33:51,930 --> 00:33:48,100  
been watching and worrying about each

727  
00:33:54,629 --> 00:33:51,940  
and every one of us and we couldn't do

728  
00:33:57,509 --> 00:33:54,639  
what we do if they did not do what they

729  
00:34:00,359 --> 00:33:57,519  
do and in taking care of us not just on

730  
00:34:02,580 --> 00:34:00,369  
the NASA side but the the USA and

731  
00:34:06,419 --> 00:34:02,590  
barrios management who've been working

732  
00:34:08,220 --> 00:34:06,429  
tirelessly to make sure that we have

733  
00:34:11,309 --> 00:34:08,230  
what we need to do what we need to do

734  
00:34:14,399 --> 00:34:11,319  
even in the face of such challenging

735  
00:34:16,740 --> 00:34:14,409  
policy shifts and policy changes and so

736  
00:34:18,329 --> 00:34:16,750  
on behalf of the flight control team I

737  
00:34:18,780 --> 00:34:18,339  
do want to thank the management of mo

738  
00:34:21,569 --> 00:34:18,790

Dee

739

00:34:23,339 --> 00:34:21,579

thank you and not only thank you for

740

00:34:25,169 --> 00:34:23,349

taking care of all of us but thank you

741

00:34:28,589 --> 00:34:25,179

guys for hooking me up on my team I

742

00:34:30,450 --> 00:34:28,599

appreciate it had an absolutely

743

00:34:41,800 --> 00:34:30,460

fantastic team of folks so let's give a

744

00:34:53,490 --> 00:34:48,400

I I would really like to go around and

745

00:34:55,920 --> 00:34:53,500

talk about unique contributions of every

746

00:34:58,360 --> 00:34:55,930

discipline every console in this room

747

00:35:00,400 --> 00:34:58,370

but you guys know how I am you're lying

748

00:35:02,020 --> 00:35:00,410

you know the generator liable to is

749

00:35:03,190 --> 00:35:02,030

liable to be sweeping me out of here

750

00:35:06,550 --> 00:35:03,200

after they turn off the lights that

751  
00:35:09,670 --> 00:35:06,560  
evening so I'm just gonna just gonna say

752  
00:35:12,850 --> 00:35:09,680  
just gonna say again that you guys have

753  
00:35:15,760 --> 00:35:12,860  
all done a fantastic job and we all did

754  
00:35:18,820 --> 00:35:15,770  
it together this was a team effort

755  
00:35:20,680 --> 00:35:18,830  
spaceflight is a team sport and the

756  
00:35:22,990 --> 00:35:20,690  
orbit one team couldn't do what we did

757  
00:35:24,880 --> 00:35:23,000  
without the tireless efforts of the

758  
00:35:28,180 --> 00:35:24,890  
orbit two and orbit three teams and so

759  
00:35:30,220 --> 00:35:28,190  
each and every person made a significant

760  
00:35:32,050 --> 00:35:30,230  
contribution and made an absolutely

761  
00:35:34,450 --> 00:35:32,060  
invaluable contribution and each person

762  
00:35:36,190 --> 00:35:34,460  
and each discipline brought something

763  
00:35:38,200 --> 00:35:36,200

unique to the table without which we

764

00:35:44,590 --> 00:35:38,210

could not have been as successful as

765

00:35:48,400 --> 00:35:44,600

we've been I do want to say that this is

766

00:35:50,200 --> 00:35:48,410

not the end I know a lot of people

767

00:35:55,690 --> 00:35:50,210

believe that and there are lot of people

768

00:35:58,690 --> 00:35:55,700

that don't but this is how it is for

769

00:36:03,700 --> 00:35:58,700

those of us who are service and who are

770

00:36:06,610 --> 00:36:03,710

stewards of things that those we serve

771

00:36:10,950 --> 00:36:06,620

have entrusted us with this is how it is

772

00:36:13,330 --> 00:36:10,960

and it's not the end we have a huge

773

00:36:16,030 --> 00:36:13,340

absolutely marvelous

774

00:36:19,240 --> 00:36:16,040

monstrosity of a space station in orbit

775

00:36:21,250 --> 00:36:19,250

which is capable of advancing our

776

00:36:23,890 --> 00:36:21,260

knowledge of how to keep people healthy

777

00:36:26,800 --> 00:36:23,900

in space so that we can actually make an

778

00:36:28,840 --> 00:36:26,810

intelligent trip to Mars or to an

779

00:36:32,770 --> 00:36:28,850

asteroid or wherever it is that they

780

00:36:35,140 --> 00:36:32,780

tell us to go we have a lot of work left

781

00:36:37,780 --> 00:36:35,150

to do and I'm not saying it's not the

782

00:36:39,220 --> 00:36:37,790

end just to boost your morale because I

783

00:36:42,070 --> 00:36:39,230

know you're all are tired of hearing

784

00:36:44,770 --> 00:36:42,080

that but but the thing I think that has

785

00:36:49,000 --> 00:36:44,780

been lost in the conversation is that we

786

00:36:51,580 --> 00:36:49,010

still have a lot of work to do we still

787

00:36:53,320 --> 00:36:51,590

have to keep these crews that we send to

788

00:36:55,160 --> 00:36:53,330

the International Space Station whether

789

00:36:57,260 --> 00:36:55,170

we send them on a shuttle or strap

790

00:36:59,510 --> 00:36:57,270

into a Russian rocket or a Japanese

791

00:37:01,130 --> 00:36:59,520

rocket or a US commercial rocket we

792

00:37:03,670 --> 00:37:01,140

still have to keep them safe on that

793

00:37:07,310 --> 00:37:03,680

space station we still have to protect

794

00:37:10,160 --> 00:37:07,320

this multibillion-dollar international

795

00:37:12,380 --> 00:37:10,170

asset that we've invested so heavily in

796

00:37:14,300 --> 00:37:12,390

that we've not only invested money in

797

00:37:17,210 --> 00:37:14,310

but that we've all invested so much of

798

00:37:20,240 --> 00:37:17,220

our lives in we still have to protect

799

00:37:22,790 --> 00:37:20,250

the capability within Mission Operations

800

00:37:27,010 --> 00:37:22,800

Directorate that has enabled us to do

801  
00:37:32,410 --> 00:37:27,020  
what we do as we cross this chasm of

802  
00:37:34,550 --> 00:37:32,420  
changing policy and that's a hard job

803  
00:37:36,170 --> 00:37:34,560  
because we don't always know how we're

804  
00:37:38,420 --> 00:37:36,180  
going to do that because when we get to

805  
00:37:40,490 --> 00:37:38,430  
the back end of that and we do have some

806  
00:37:42,140 --> 00:37:40,500  
kind of focus whatever that focus is on

807  
00:37:43,850 --> 00:37:42,150  
building this space system or that space

808  
00:37:46,790 --> 00:37:43,860  
system executing this program or that

809  
00:37:48,470 --> 00:37:46,800  
program we have still got to be the team

810  
00:37:52,480 --> 00:37:48,480  
that is capable of doing what we have

811  
00:37:55,880 --> 00:37:52,490  
done and that's going to be difficult so

812  
00:37:57,970 --> 00:37:55,890  
it's not the end we have a lot of work

813  
00:38:01,820 --> 00:37:57,980

to do and this group of people is

814

00:38:04,310 --> 00:38:01,830

capable of doing that so in the spirit

815

00:38:09,160 --> 00:38:04,320

of celebrating so many of those things

816

00:38:12,290 --> 00:38:09,170

that we take pride in and that we enjoy

817

00:38:15,130 --> 00:38:12,300

about our work there are a couple of

818

00:38:18,290 --> 00:38:15,140

disciplines that I want to recognize for

819

00:38:20,110 --> 00:38:18,300

their excellence and superior

820

00:38:22,400 --> 00:38:20,120

performance during this mission

821

00:38:25,970 --> 00:38:22,410

recognizing of course that everyone did

822

00:38:31,070 --> 00:38:25,980

an absolutely fantastic job now as you

823

00:38:33,920 --> 00:38:31,080

know we had a unique and rare

824

00:38:35,839 --> 00:38:33,930

opportunity to run our GPC mile couple

825

00:38:39,180 --> 00:38:35,849

of times on orbit

826

00:38:41,459 --> 00:38:39,190

in fact the reason we had the second GPC

827

00:38:42,749 --> 00:38:41,469

failure I told Fergie the reason we had

828

00:38:44,130 --> 00:38:42,759

it is because he made the mistake of

829

00:38:45,359 --> 00:38:44,140

actually telling me on a phone call I

830

00:38:47,190 --> 00:38:45,369

didn't share this with you guys they

831

00:38:55,019 --> 00:38:47,200

actually had fun running for p1 so we

832

00:38:57,630 --> 00:38:55,029

said okay we can do you one better but

833

00:38:59,549 --> 00:38:57,640

when we had those anomalies of course

834

00:39:00,870 --> 00:38:59,559

the first one took place right before we

835

00:39:03,900 --> 00:39:00,880

were getting into the rendezvous

836

00:39:04,859 --> 00:39:03,910

checklist in on rendezvous day and of

837

00:39:06,120 --> 00:39:04,869

course the second one occurred in the

838

00:39:09,089 --> 00:39:06,130

middle of the night

839

00:39:12,359 --> 00:39:09,099

the DPS team responded to those failures

840

00:39:15,450 --> 00:39:12,369

in classic flight controller fashion

841

00:39:17,009 --> 00:39:15,460

they assessed the anomaly they leveraged

842

00:39:20,430 --> 00:39:17,019

the information that they had available

843

00:39:22,410 --> 00:39:20,440

and they made very quick very timely and

844

00:39:24,569 --> 00:39:22,420

intelligent decisions about what to do

845

00:39:28,109 --> 00:39:24,579

such that we were able to get back on

846

00:39:30,959 --> 00:39:28,119

track and not be derailed at all and I

847

00:39:32,789 --> 00:39:30,969

think the the the work that they did in

848

00:39:34,589 --> 00:39:32,799

responding to those failures and

849

00:39:36,930 --> 00:39:34,599

fortunately they weren't serious

850

00:39:38,670 --> 00:39:36,940

problems with with the computers

851  
00:39:40,650 --> 00:39:38,680  
although the situation was serious I

852  
00:39:43,769 --> 00:39:40,660  
think the work that they did represents

853  
00:39:45,749 --> 00:39:43,779  
the finest traditions of flight control

854  
00:39:48,359 --> 00:39:45,759  
and of Mission Operations Directorate so

855  
00:39:50,549 --> 00:39:48,369  
I would like to recognize our lead DPS

856  
00:39:52,799 --> 00:39:50,559  
officer representing her team Amanda

857  
00:40:13,400 --> 00:39:52,809  
coots I'd like to her too to hold the

858  
00:40:18,990 --> 00:40:16,259  
you know the the historical definition

859  
00:40:21,859 --> 00:40:19,000  
of the person who hangs the plaque is

860  
00:40:24,140 --> 00:40:21,869  
the individual or discipline that's most

861  
00:40:27,750 --> 00:40:24,150  
responsible or most contributes to

862  
00:40:30,720 --> 00:40:27,760  
mission success but but I believe

863  
00:40:32,640 --> 00:40:30,730

personally especially for the last

864

00:40:35,579 --> 00:40:32,650

several years that is our missions get

865

00:40:38,490 --> 00:40:35,589

more complex and as we get better at

866

00:40:41,130 --> 00:40:38,500

executing them you know we pray for

867

00:40:45,120 --> 00:40:41,140

missions like like this one where we had

868

00:40:47,250 --> 00:40:45,130

very very few real problems you know we

869

00:40:49,410 --> 00:40:47,260

did have the GPC issues and and those

870

00:40:51,089 --> 00:40:49,420

were significant but we pray for

871

00:40:54,150 --> 00:40:51,099

missions where where the Train doesn't

872

00:40:56,700 --> 00:40:54,160

come off the rails and so you know I've

873

00:40:58,980 --> 00:40:56,710

always liked to focus on in the absence

874

00:41:01,019 --> 00:40:58,990

of major you know earth-shattering

875

00:41:03,680 --> 00:41:01,029

problems to focus on those things about

876

00:41:07,549 --> 00:41:03,690

what we do in this room that matter

877

00:41:10,230 --> 00:41:07,559

precision of execution preparation

878

00:41:12,299 --> 00:41:10,240

systems knowledge command of your system

879

00:41:15,000 --> 00:41:12,309

command of the operations and the degree

880

00:41:17,640 --> 00:41:15,010

to which you enable the mission to go

881

00:41:19,970 --> 00:41:17,650

forward even under favorable

882

00:41:24,930 --> 00:41:22,950

everybody in this room that supported on

883

00:41:29,519 --> 00:41:24,940

my shift it's supported on the other

884

00:41:31,920 --> 00:41:29,529

shifts did a fantastic job but there's

885

00:41:34,230 --> 00:41:31,930

one discipline and one one flight

886

00:41:37,140 --> 00:41:34,240

controller in particular that that

887

00:41:41,749 --> 00:41:37,150

stands out in my mind as an individual

888

00:41:44,910 --> 00:41:41,759

who very in a very unassuming manner

889

00:41:49,460 --> 00:41:44,920

basically brought their a-game each and

890

00:41:52,799 --> 00:41:49,470

every day to the degree that new

891

00:41:55,890 --> 00:41:52,809

processes or new techniques were

892

00:41:58,339 --> 00:41:55,900

developed to enable the success of this

893

00:42:01,230 --> 00:41:58,349

crew on orbit and to really strengthen

894

00:42:03,859 --> 00:42:01,240

our overall execution in support of the

895

00:42:06,779 --> 00:42:03,869

mission objectives that ranged from

896

00:42:08,400 --> 00:42:06,789

ensuring that we had proper calm if they

897

00:42:10,589 --> 00:42:08,410

were appropriate times making sure

898

00:42:12,960 --> 00:42:10,599

Capcom and I were completely synched up

899

00:42:14,579 --> 00:42:12,970

and developing a camera management plan

900

00:42:17,190 --> 00:42:14,589

of course you know we have to manage

901  
00:42:20,009 --> 00:42:17,200  
cameras all the time but but very rarely

902  
00:42:22,950 --> 00:42:20,019  
is the grounds management of camera is

903  
00:42:23,620 --> 00:42:22,960  
actually a critical enabler to execution

904  
00:42:25,300 --> 00:42:23,630  
of any

905  
00:42:26,890 --> 00:42:25,310  
or complex robotics because we just

906  
00:42:30,970 --> 00:42:26,900  
simply didn't have enough hands on orbit

907  
00:42:33,910 --> 00:42:30,980  
to do that and so for excellence and

908  
00:42:35,650 --> 00:42:33,920  
superior performance in the finest

909  
00:42:38,500 --> 00:42:35,660  
tradition of what I believe this room

910  
00:43:05,320 --> 00:42:38,510  
stands for I would like to recognize our

911  
00:43:11,800 --> 00:43:09,430  
so if Heidi and Amanda will can fight

912  
00:43:13,540 --> 00:43:11,810  
their way through the crowd to sign the

913  
00:43:20,170 --> 00:43:13,550

plaque and our crew can sign the plaque

914

00:43:27,880 --> 00:43:20,180

actually the pen you guys have that

915

00:44:15,690 --> 00:43:27,890

secret pin okay all right we got it

916

00:44:15,700 --> 00:44:23,820

okay