



1
00:00:11,430 --> 00:00:09,600
I guess on a personal level I was

2
00:00:14,040 --> 00:00:11,440
working for General Motors years ago and

3
00:00:16,380 --> 00:00:14,050
I had my family on vacation I took my

4
00:00:17,880 --> 00:00:16,390
kids to Disney World in Florida and we

5
00:00:19,950 --> 00:00:17,890
heard on the radio that there was going

6
00:00:21,630 --> 00:00:19,960
to be a shuttle launch so we looked into

7
00:00:23,730 --> 00:00:21,640
it and found out and we went down to the

8
00:00:25,589 --> 00:00:23,740
beach and it was like going to a rock

9
00:00:28,109 --> 00:00:25,599
concert basically those were the days of

10
00:00:31,169 --> 00:00:28,119
people having boom boxes and everybody

11
00:00:33,360 --> 00:00:31,179
did the countdown on the beach and as it

12
00:00:37,200 --> 00:00:33,370
turned out it was the initial maiden

13
00:00:38,910 --> 00:00:37,210

voyage of the Challenger and just a few

14

00:00:41,720 --> 00:00:38,920

years later I was working down in

15

00:00:44,550 --> 00:00:41,730

Florida working for Pratt Whitney and

16

00:00:47,160 --> 00:00:44,560

unfortunately I did see the demise out

17

00:00:49,560 --> 00:00:47,170

the window of the second store building

18

00:00:54,420 --> 00:00:49,570

with all my coworkers of the Challenger

19

00:00:57,900 --> 00:00:54,430

disaster I would I was very remorseful

20

00:01:00,090 --> 00:00:57,910

to the whole situation and I guess

21

00:01:03,780 --> 00:01:00,100

that's the key key thing that keeps me

22

00:01:10,460 --> 00:01:03,790

driving I and in the passion of the

23

00:01:13,830 --> 00:01:10,470

shuttle program I'm getting goosebumps

24

00:01:17,820 --> 00:01:13,840

my first engine test was that canoga

25

00:01:22,500 --> 00:01:17,830

park up on the up on the hill at santa

26
00:01:25,080 --> 00:01:22,510
susanna and the shockwaves that came off

27
00:01:27,620 --> 00:01:25,090
the engine the power that came off of

28
00:01:31,760 --> 00:01:27,630
our ian was so amazing

29
00:01:34,910 --> 00:01:31,770
it just filled me with an excitement

30
00:01:36,889 --> 00:01:34,920
that I can't even I can't even share

31
00:01:39,620 --> 00:01:36,899
with you in words because you have to

32
00:01:45,020 --> 00:01:39,630
feel it and I felt that when I've been

33
00:01:48,230 --> 00:01:45,030
at every ssme launch and it's never

34
00:01:52,219 --> 00:01:48,240
changed I think it has a major effect on

35
00:01:54,649 --> 00:01:52,229
on how you look at the job that you have

36
00:01:57,590 --> 00:01:54,659
to do I'm still filled with excitement

37
00:02:01,029 --> 00:01:57,600
and energy and that's what's important

38
00:02:04,070 --> 00:02:01,039

here to support shuttle you have to be

39

00:02:06,199 --> 00:02:04,080

energized and you have to be motivated

40

00:02:12,259 --> 00:02:06,209

to do that that job just the best that

41

00:02:14,059 --> 00:02:12,269

you very best you can one of the things

42

00:02:18,650 --> 00:02:14,069

that stand out in my mind when we first

43

00:02:20,210 --> 00:02:18,660

ran our fuel pumps the gases that went

44

00:02:22,819 --> 00:02:20,220

through the turbine was exhausted

45

00:02:26,390 --> 00:02:22,829

through a war fish that was ignited and

46

00:02:29,030 --> 00:02:26,400

put a big flame out decided a hot gas

47

00:02:31,550 --> 00:02:29,040

manifold and in the hydrogen it was

48

00:02:33,170 --> 00:02:31,560

pumped went up a stack and they actually

49

00:02:36,770 --> 00:02:33,180

had to call a Palm Beach International

50

00:02:39,800 --> 00:02:36,780

Airport every time I ran and rerouted

51
00:02:41,360 --> 00:02:39,810
commercial traffic around the area when

52
00:02:43,309 --> 00:02:41,370
we were going to do our runs and I was

53
00:02:45,740 --> 00:02:43,319
pretty amazed about that that the the

54
00:02:48,229 --> 00:02:45,750
heat from the from the running could go

55
00:02:50,860 --> 00:02:48,239
that high to possibly interrupt a

56
00:02:59,860 --> 00:02:57,280
a group of us were at KSC and we had had

57
00:03:02,199 --> 00:02:59,870
the good fortune to visit the Columbia

58
00:03:04,920 --> 00:03:02,209
room where they store recovered

59
00:03:08,830 --> 00:03:04,930
artifacts from the Columbia accident

60
00:03:10,869 --> 00:03:08,840
well our group was in the VA be waiting

61
00:03:12,910 --> 00:03:10,879
on our tour guide to arrive and we were

62
00:03:15,640 --> 00:03:12,920
all just kind of standing around talking

63
00:03:18,610 --> 00:03:15,650

laughing and joking around in the mood

64

00:03:21,520 --> 00:03:18,620

was very light when our tour guide

65

00:03:25,030 --> 00:03:21,530

arrived and took us to the artifacts

66

00:03:28,630 --> 00:03:25,040

room she opened the door and you could

67

00:03:33,849 --> 00:03:28,640

have heard a pin drop as we saw the

68

00:03:39,130 --> 00:03:33,859

displays it was a very somber very quiet

69

00:03:41,860 --> 00:03:39,140

moment and I think the magnitude of the

70

00:03:47,289 --> 00:03:41,870

tragedy really sink in with all of us

71

00:03:50,580 --> 00:03:47,299

and I think you know together we've all

72

00:03:53,349 --> 00:03:50,590

done some wonderful awesome things

73

00:03:55,449 --> 00:03:53,359

working main engine and working on the

74

00:03:57,970 --> 00:03:55,459

space shuttle program and so we

75

00:04:00,099 --> 00:03:57,980

celebrate those things but at the same

76
00:04:03,430 --> 00:04:00,109
time we're very mindful of the

77
00:04:06,550 --> 00:04:03,440
sacrifices that some extremely

78
00:04:09,309 --> 00:04:06,560
courageous people have made throughout

79
00:04:12,539 --> 00:04:09,319
the entire history of NASA to get us

80
00:04:22,510 --> 00:04:12,549
where we are today and we will always

81
00:04:25,270 --> 00:04:22,520
remember and honor that I think the most

82
00:04:28,210 --> 00:04:25,280
memorable time in my career working on

83
00:04:31,930 --> 00:04:28,220
SS army was in the early 90s when we had

84
00:04:34,060 --> 00:04:31,940
the on pad aborts that we had we had

85
00:04:37,089 --> 00:04:34,070
actually four of them within the span of

86
00:04:38,710 --> 00:04:37,099
two or three years and I had been an

87
00:04:40,750 --> 00:04:38,720
engineer at the company for four or five

88
00:04:44,409 --> 00:04:40,760

years when those happen so I was just

89

00:04:47,770 --> 00:04:44,419

getting my feet wet long hours and you

90

00:04:50,620 --> 00:04:47,780

spend a lot of time you learn a lot is

91

00:04:53,050 --> 00:04:50,630

what I'm trying to say and those

92

00:04:55,990 --> 00:04:53,060

experiences working for those aboard

93

00:04:58,519 --> 00:04:56,000

when the eyes of the world were on you

94

00:05:06,559 --> 00:04:58,529

that's something that's pretty memorable

95

00:05:10,129 --> 00:05:06,569

me I came to ssme and them around

96

00:05:14,089 --> 00:05:10,139

December 2005 so the first launch that I

97

00:05:18,139 --> 00:05:14,099

saw working for ssme was in December

98

00:05:19,729 --> 00:05:18,149

2006 my husband and I took vacation and

99

00:05:21,529 --> 00:05:19,739

took both of our mothers and a lot of

100

00:05:23,749 --> 00:05:21,539

our great nieces and nephews down for

101
00:05:27,259 --> 00:05:23,759
the launch so we were out in the

102
00:05:31,279 --> 00:05:27,269
causeway and it was a night launch oh it

103
00:05:33,229 --> 00:05:31,289
was fantastic beautiful and as as though

104
00:05:34,669 --> 00:05:33,239
you know after the launch and you're

105
00:05:37,399 --> 00:05:34,679
watching it you're going to watch it as

106
00:05:41,149 --> 00:05:37,409
long as you can and it's so excited and

107
00:05:43,299 --> 00:05:41,159
so then the of the guy comes over the

108
00:05:46,279 --> 00:05:43,309
intercom and says three main engines

109
00:05:48,409 --> 00:05:46,289
operating nominal and I'm going boo boo

110
00:05:51,139 --> 00:05:48,419
and then the launch goes out of sight

111
00:05:52,879 --> 00:05:51,149
and my great nephew came up to me and

112
00:05:57,769 --> 00:05:52,889
patted me on the shoulder and said good

113
00:06:06,859 --> 00:05:57,779

job Anna Lisa and you know to me just

114

00:06:08,869 --> 00:06:06,869

fantastic in the 80s we had a major

115

00:06:12,259 --> 00:06:08,879

engine incident we were supposed to fly

116

00:06:14,509 --> 00:06:12,269

nine days later and we literally worked

117

00:06:16,399 --> 00:06:14,519

around the clock to make sure that we

118

00:06:18,139 --> 00:06:16,409

could clear that engine and we had

119

00:06:19,669 --> 00:06:18,149

different failure scenarios that we were

120

00:06:21,619 --> 00:06:19,679

working we didn't know exactly what it

121

00:06:23,029 --> 00:06:21,629

was but we had to make sure for any of

122

00:06:25,729 --> 00:06:23,039

those failure scenarios that were

123

00:06:28,249 --> 00:06:25,739

possible that the next flight was not

124

00:06:30,739 --> 00:06:28,259

going to experience that same problem so

125

00:06:33,559 --> 00:06:30,749

that's one of those fire drill memories

126
00:06:35,059 --> 00:06:33,569
that you have the other memory is are

127
00:06:37,759 --> 00:06:35,069
just I love working with the folks

128
00:06:40,039 --> 00:06:37,769
around here you know just working with

129
00:06:41,799 --> 00:06:40,049
true rocket scientists you know people

130
00:06:44,989 --> 00:06:41,809
that are experts in their field

131
00:06:47,329 --> 00:06:44,999
passionate about what they do really

132
00:06:50,209 --> 00:06:47,339
dedicated to keeping astronauts safe we

133
00:06:53,089 --> 00:06:50,219
get to talk with astronauts and get to

134
00:06:56,119 --> 00:06:53,099
know them so that's just kind of a day

135
00:06:59,760 --> 00:06:56,129
to day pleasure to work here mm I folks

136
00:07:06,809 --> 00:07:04,469
I think the one of the saddest memories

137
00:07:09,149 --> 00:07:06,819
that I have is when we decided to move

138
00:07:10,860 --> 00:07:09,159

engine assembly out of canoga park it

139

00:07:12,510 --> 00:07:10,870

was a business decision at that time and

140

00:07:13,980 --> 00:07:12,520

it was a good decision to do it because

141

00:07:16,800 --> 00:07:13,990

we weren't building that many more

142

00:07:18,119 --> 00:07:16,810

engines but one member we had is we took

143

00:07:20,969 --> 00:07:18,129

a picture of it and we were all waving

144

00:07:22,589 --> 00:07:20,979

goodbye to the engine as it was the last

145

00:07:25,379 --> 00:07:22,599

engine that left the engine line so

146

00:07:28,619 --> 00:07:25,389

that's one of the sad memories that I

147

00:07:30,240 --> 00:07:28,629

had of the engine line but there's tons

148

00:07:33,180 --> 00:07:30,250

and tons of other good memories of

149

00:07:34,620 --> 00:07:33,190

successful launches and great accolades

150

00:07:37,379 --> 00:07:34,630

for everyone that have done good things

151
00:07:41,010 --> 00:07:37,389
here at rocketdyne so there's a there's

152
00:07:49,920 --> 00:07:41,020
a whole archive of good memories across

153
00:07:51,540 --> 00:07:49,930
the board I had a recent experience that

154
00:07:53,580 --> 00:07:51,550
I think is really pretty special to me

155
00:07:56,430 --> 00:07:53,590
it changed some of my perspective I took

156
00:07:58,860 --> 00:07:56,440
a class in ground operations for the

157
00:08:00,809 --> 00:07:58,870
shuttle at KSC and course during this

158
00:08:02,820 --> 00:08:00,819
class they're talking about the whole

159
00:08:04,830 --> 00:08:02,830
flow from the day of shuttle lands and

160
00:08:06,870 --> 00:08:04,840
all the steps that they go through to

161
00:08:08,939 --> 00:08:06,880
get it ready to launch again and they

162
00:08:10,770 --> 00:08:08,949
have schedules literally down to 15

163
00:08:13,260 --> 00:08:10,780

minute increments during the flow of

164

00:08:15,719 --> 00:08:13,270

everything that has to happen to that

165

00:08:17,760 --> 00:08:15,729

shuttle and in all of these flows

166

00:08:19,499 --> 00:08:17,770

there's just this little tiny part about

167

00:08:22,409 --> 00:08:19,509

the ssme and it basically is a little

168

00:08:24,659 --> 00:08:22,419

black that says install ssme or remove

169

00:08:25,920 --> 00:08:24,669

ssme that kept thinking wait a minute

170

00:08:27,809 --> 00:08:25,930

we're like the most important thing on

171

00:08:29,519 --> 00:08:27,819

the orbiter why are they only spending a

172

00:08:31,860 --> 00:08:29,529

couple little bars on all these

173

00:08:34,350 --> 00:08:31,870

flowcharts and after about three days of

174

00:08:36,149 --> 00:08:34,360

this I finally figured out you know why

175

00:08:38,850 --> 00:08:36,159

we aren't showing up on that because we

176

00:08:41,579 --> 00:08:38,860

are always there ready to support our

177

00:08:43,560 --> 00:08:41,589

hardware is ready the folks doing the

178

00:08:45,120 --> 00:08:43,570

flow at KSC they don't even have to

179

00:08:46,800 --> 00:08:45,130

think about the ssme because they know

180

00:08:50,730 --> 00:08:46,810

we are going to be there ready to

181

00:08:53,160 --> 00:08:50,740

support yeah we're the ssme we're there

182

00:09:00,400 --> 00:08:53,170

we're supporting our customer and they

183

00:09:04,660 --> 00:09:02,319

I remember when I was a little kid

184

00:09:06,579 --> 00:09:04,670

probably about 12 years old and I was

185

00:09:09,129 --> 00:09:06,589

excited about space program I remember

186

00:09:10,540 --> 00:09:09,139

writing a letter to NASA and I didn't I

187

00:09:12,910 --> 00:09:10,550

don't know what I wrote but i think it

188

00:09:14,980 --> 00:09:12,920

was along the lines of deer nasa please

189

00:09:17,199 --> 00:09:14,990

send me stuff and i remember getting an

190

00:09:19,540 --> 00:09:17,209

envelope back from them a big old brown

191

00:09:22,240 --> 00:09:19,550

envelope and for all i knew at that time

192

00:09:24,550 --> 00:09:22,250

it was sent to me by john glenn himself

193

00:09:29,379 --> 00:09:24,560

and i opened it up and it was pictures

194

00:09:31,449 --> 00:09:29,389

of the apollo 8 program and the decal

195

00:09:33,939 --> 00:09:31,459

about circling the moon and circling the

196

00:09:36,460 --> 00:09:33,949

earth with the big 8 and that's truly

197

00:09:38,889 --> 00:09:36,470

why i got excited about the space

198

00:09:40,840 --> 00:09:38,899

program i remember the excitement that i

199

00:09:43,600 --> 00:09:40,850

felt and admittedly i was probably only

200

00:09:45,579 --> 00:09:43,610

11 or 12 years old but that really had

201

00:09:47,980 --> 00:09:45,589

an impact on me and at that point in

202

00:09:50,410 --> 00:09:47,990

time i decided hey i want to be part of

203

00:09:52,059 --> 00:09:50,420

something bigger and I thought the space

204

00:10:00,689 --> 00:09:52,069

program you can't get any bigger than

205

00:10:04,509 --> 00:10:03,100

starting here at the test stands they

206

00:10:07,150 --> 00:10:04,519

had to burn stack so you get the burn

207

00:10:08,650 --> 00:10:07,160

stacks going first and the flame a

208

00:10:11,319 --> 00:10:08,660

hydrogen flame that was shoot in the

209

00:10:12,790 --> 00:10:11,329

year 5,000 feet a lot of tests were late

210

00:10:14,139 --> 00:10:12,800

at night seemed like he got things done

211

00:10:16,929 --> 00:10:14,149

during the day and tested at night

212

00:10:18,189 --> 00:10:16,939

that's historically true for anybody but

213

00:10:21,610 --> 00:10:18,199

you were so close you could feel the

214

00:10:23,439 --> 00:10:21,620

heat and then right before that the the

215

00:10:25,059 --> 00:10:23,449

start sequence would be enabled the

216

00:10:27,100 --> 00:10:25,069

valves would start to create ice would

217

00:10:28,900 --> 00:10:27,110

start to fall and you that that sense of

218

00:10:32,290 --> 00:10:28,910

what's going to happen next just built

219

00:10:34,210 --> 00:10:32,300

and then when the pump lid off the roar

220

00:10:36,819 --> 00:10:34,220

the sound it was just incredible it to

221

00:10:38,079 --> 00:10:36,829

be so close and so much power at the end

222

00:10:39,490 --> 00:10:38,089

of day when I walk away from the Space

223

00:10:41,620 --> 00:10:39,500

Shuttle main engine program one of their

224

00:10:43,090 --> 00:10:41,630

most memorable or rewarding parts of

225

00:10:44,829 --> 00:10:43,100

working on the program where the people

226

00:10:45,910 --> 00:10:44,839

that they worked with there's not a lot

227

00:10:48,160 --> 00:10:45,920

of people in the world that have the

228

00:10:50,319 --> 00:10:48,170

opportunity to work on rocket engines

229

00:10:52,990 --> 00:10:50,329

and so you become very close I think

230

00:10:59,829 --> 00:10:53,000

when you leave ssme or leave or retire

231

00:11:04,639 --> 00:11:02,480

always remember one time I decided to

232

00:11:07,100 --> 00:11:04,649

take my wife to a launch and I decided I

233

00:11:11,120 --> 00:11:07,110

would just enjoy the launch with my wife

234

00:11:14,420 --> 00:11:11,130

and so we were at the the viewing area

235

00:11:16,699 --> 00:11:14,430

on on the Banana River and and I

236

00:11:19,180 --> 00:11:16,709

remember that you know I was on the cell

237

00:11:22,069 --> 00:11:19,190

phone constantly with the guys in the

238

00:11:23,840 --> 00:11:22,079

launch control room asking them for data

239

00:11:26,379 --> 00:11:23,850

and they would feed be numbers and ask

240

00:11:28,670 --> 00:11:26,389

questions we went back and forth and

241

00:11:31,129 --> 00:11:28,680

finally the launch went off right on

242

00:11:33,769 --> 00:11:31,139

time which was kind of special in those

243

00:11:35,840 --> 00:11:33,779

days and I always remember we were

244

00:11:39,319 --> 00:11:35,850

sitting in this large grandstand of

245

00:11:41,720 --> 00:11:39,329

people and you know everybody was

246

00:11:43,759 --> 00:11:41,730

cheering and yelling as the shuttle took

247

00:11:46,550 --> 00:11:43,769

off and then when you finally couldn't

248

00:11:49,480 --> 00:11:46,560

see it anymore everybody started leaving

249

00:11:52,430 --> 00:11:49,490

of course we were sitting there still

250

00:11:54,920 --> 00:11:52,440

glued on my cell phone as because the

251
00:11:57,949 --> 00:11:54,930
shuttle engines were still firing and by

252
00:11:59,750 --> 00:11:57,959
the time we hit Miko my wife and I were

253
00:12:02,120 --> 00:11:59,760
the only one sitting in a grandstand

254
00:12:04,759 --> 00:12:02,130
everybody else was left and we're

255
00:12:07,790 --> 00:12:04,769
already partying I guess at that time

256
00:12:10,880 --> 00:12:07,800
but you know is always special those

257
00:12:14,930 --> 00:12:10,890
missions to hit me co and yet the the

258
00:12:21,350 --> 00:12:14,940
thrill of that was just something

259
00:12:23,030 --> 00:12:21,360
special and a lot of us got together

260
00:12:25,670 --> 00:12:23,040
there's my first time actually going to

261
00:12:27,439 --> 00:12:25,680
steps I never been a stance before I've

262
00:12:29,480 --> 00:12:27,449
seen pictures of the test stands and

263
00:12:32,870 --> 00:12:29,490

whatnot but I never been on top of them

264

00:12:36,829 --> 00:12:32,880

I decided I was going to make a little

265

00:12:39,170 --> 00:12:36,839

paper airplane just to see how it was

266

00:12:40,939 --> 00:12:39,180

stand up to a flying off the top of the

267

00:12:43,970 --> 00:12:40,949

test and I really didn't tell anybody

268

00:12:45,050 --> 00:12:43,980

that I was doing it so who knows i

269

00:12:47,689 --> 00:12:45,060

probably could have got a little bit of

270

00:12:49,910 --> 00:12:47,699

trouble doing that but when i first got

271

00:12:51,350 --> 00:12:49,920

up there I was uh probably like anybody

272

00:12:53,840 --> 00:12:51,360

else I was a little scared because uh

273

00:12:56,470 --> 00:12:53,850

it's a little high up there when nobody

274

00:12:58,639 --> 00:12:56,480

was looking and I turned to the side

275

00:13:00,769 --> 00:12:58,649

when over there walking like I was

276

00:13:04,449 --> 00:13:00,779

looking at the trees and trying to see

277

00:13:08,000 --> 00:13:04,459

what else was out there I threw it and

278

00:13:08,500 --> 00:13:08,010

needless to say because of the wind and

279

00:13:09,910 --> 00:13:08,510

everything

280

00:13:12,010 --> 00:13:09,920

paper airplane didn't fare so well

281

00:13:20,320 --> 00:13:12,020

that's my little special story dealing

282

00:13:22,750 --> 00:13:20,330

with SS at me the controller software

283

00:13:29,170 --> 00:13:22,760

lab used to be in Canoga Park California

284

00:13:32,440 --> 00:13:29,180

billing for and in 1994 there were there

285

00:13:34,330 --> 00:13:32,450

was a decision to bring the lab closer

286

00:13:37,990 --> 00:13:34,340

to the Marshall Space Flight Center

287

00:13:39,220 --> 00:13:38,000

customer and there were a number of us

288

00:13:43,180 --> 00:13:39,230

working in the Huntsville that were

289

00:13:46,570 --> 00:13:43,190

integrated with the canoga park team to

290

00:13:50,200 --> 00:13:46,580

facilitate that move crew or three of us

291

00:13:54,640 --> 00:13:50,210

and Kevin and Bob I myself we moved the

292

00:13:57,970 --> 00:13:54,650

lab from canoga park over here with pen

293

00:14:00,460 --> 00:13:57,980

a lot of days underneath the floor I

294

00:14:02,320 --> 00:14:00,470

remember a funny story because uh Bob

295

00:14:05,170 --> 00:14:02,330

that we sent him underneath the floor

296

00:14:07,720 --> 00:14:05,180

and he will disappear the only thing we

297

00:14:09,160 --> 00:14:07,730

could see with his feet and then Kevin

298

00:14:10,540 --> 00:14:09,170

and I when he needed to get out we will

299

00:14:13,810 --> 00:14:10,550

pull him out by his feet out of the

300

00:14:16,360 --> 00:14:13,820

floor spent four days underneath the

301

00:14:18,160 --> 00:14:16,370

raised floor with about one foot of

302

00:14:19,780 --> 00:14:18,170

clearance you know I go underneath there

303

00:14:22,090 --> 00:14:19,790

at eight o'clock and come out for lunch

304

00:14:25,390 --> 00:14:22,100

and dive back in there again pulling

305

00:14:27,610 --> 00:14:25,400

cables you know all kinds of stuff we

306

00:14:30,190 --> 00:14:27,620

found her teeth there and packing it up

307

00:14:32,890 --> 00:14:30,200

and sending it to Huntsville a lot of

308

00:14:34,840 --> 00:14:32,900

hard work went into that move and you

309

00:14:37,420 --> 00:14:34,850

know we worked hard but we had a good

310

00:14:45,610 --> 00:14:37,430

time doing it and I think we did it very

311

00:14:48,640 --> 00:14:45,620

well and that makes me proud I think the

312

00:14:50,680 --> 00:14:48,650

most fulfilling piece was watching the

313

00:14:53,380 --> 00:14:50,690

first fuel pump fly I mean but the LOX

314

00:14:56,200 --> 00:14:53,390

pump was exciting to but I went up to

315

00:15:01,690 --> 00:14:56,210

launch for the for the first fuel pump

316

00:15:04,990 --> 00:15:01,700

as STS 104 I believe was and it was a

317

00:15:08,170 --> 00:15:05,000

5am launch so we all went up on the

318

00:15:09,730 --> 00:15:08,180

night before and we were lucky enough to

319

00:15:11,710 --> 00:15:09,740

take a family member with

320

00:15:15,160 --> 00:15:11,720

and I brought my son who was five years

321

00:15:17,350 --> 00:15:15,170

old at the time and we stayed up all

322

00:15:20,710 --> 00:15:17,360

night and five o'clock in the mornings

323

00:15:23,110 --> 00:15:20,720

awfully early for a five-year-old but he

324

00:15:26,110 --> 00:15:23,120

saw the shuttle launch had lit up the

325

00:15:28,900 --> 00:15:26,120

sky and he said dad that it looks like

326

00:15:33,310 --> 00:15:28,910

its morning time and then the shuttle

327

00:15:35,620 --> 00:15:33,320

left was dark again but he was very

328

00:15:37,810 --> 00:15:35,630

excited seeing that launch and that

329

00:15:45,880 --> 00:15:37,820

really gave me a lot of pride not only

330

00:15:47,560 --> 00:15:45,890

in what I do but for my family to one of

331

00:15:49,270 --> 00:15:47,570

our jobs here with the project support

332

00:15:51,750 --> 00:15:49,280

group is to transfer files back and

333

00:15:55,690 --> 00:15:51,760

forth when the NASA customer needs data

334

00:15:58,060 --> 00:15:55,700

whatever since we aren't compliant back

335

00:16:01,870 --> 00:15:58,070

and forth through our servers we serve

336

00:16:04,360 --> 00:16:01,880

as that conduit so canoga park will put

337

00:16:07,390 --> 00:16:04,370

or west palm whichever will put their

338

00:16:10,780 --> 00:16:07,400

charts in flight ops which is a server

339

00:16:14,440 --> 00:16:10,790

that the ssme team uses myself I have a

340

00:16:16,210 --> 00:16:14,450

folder it's called Marcie and over the

341

00:16:19,540 --> 00:16:16,220

years that servers been set out there

342

00:16:21,160 --> 00:16:19,550

for years and all of our guys that I

343

00:16:23,200 --> 00:16:21,170

work with it with the different product

344

00:16:24,990 --> 00:16:23,210

teams you know they know that that's

345

00:16:28,930 --> 00:16:25,000

where they're supposed to put the files

346

00:16:31,150 --> 00:16:28,940

so at canoga we were sitting out there

347

00:16:33,670 --> 00:16:31,160

one day when I was visiting with a big

348

00:16:35,920 --> 00:16:33,680

group of turbomachinery people and I

349

00:16:40,390 --> 00:16:35,930

knew God came up that I had never seen

350

00:16:44,290 --> 00:16:40,400

before and he has this amazed look on

351

00:16:47,680 --> 00:16:44,300

his face like wait a minute Marci as in

352

00:16:49,450 --> 00:16:47,690

the Marcy folder he said I thought that

353

00:16:51,220 --> 00:16:49,460

was not a real person eats that I

354

00:16:52,990 --> 00:16:51,230

thought that was a folder I had no idea

355

00:16:59,070 --> 00:16:53,000

there was somebody who actually took

356

00:17:03,780 --> 00:17:01,590

I think the strangest thing I've ever

357

00:17:05,880 --> 00:17:03,790

had to do on the program was actually

358

00:17:09,120 --> 00:17:05,890

non concur with a change that I wrote

359

00:17:11,699 --> 00:17:09,130

and the way that came down was when I

360

00:17:13,620 --> 00:17:11,709

was at the Cape the engineers up here

361

00:17:15,390 --> 00:17:13,630

called me and told me that we had got an

362

00:17:17,880 --> 00:17:15,400

action from the program to change a

363

00:17:20,550 --> 00:17:17,890

requirement well I immediately knew that

364

00:17:22,800 --> 00:17:20,560

whoever gave us the action did not even

365

00:17:25,470 --> 00:17:22,810

understand the test so I told him that

366

00:17:27,840 --> 00:17:25,480

that we can't do we can't complete that

367

00:17:30,510 --> 00:17:27,850

action so I told them I would call back

368

00:17:32,700 --> 00:17:30,520

to the CM guy back in Houston and

369

00:17:34,560 --> 00:17:32,710

telling that that action wasn't when it

370

00:17:37,500 --> 00:17:34,570

needs to be withdrawn because it wasn't

371

00:17:39,090 --> 00:17:37,510

appropriate so I called the JSC guy and

372

00:17:41,640 --> 00:17:39,100

he said they don't have a mechanism for

373

00:17:43,830 --> 00:17:41,650

withdrawing actions and so he said my

374

00:17:45,720 --> 00:17:43,840

only option was to submit the change and

375

00:17:48,150 --> 00:17:45,730

if I didn't agree with it non concur

376

00:17:50,310 --> 00:17:48,160

which I did I roved the change and it

377

00:17:52,140 --> 00:17:50,320

went through the change process then i

378

00:17:54,240 --> 00:17:52,150

wrote a non concur to the change that i

379

00:17:56,970 --> 00:17:54,250

wrote it went to the board and was

380

00:17:59,010 --> 00:17:56,980

rejected because we didn't concur with

381

00:18:08,190 --> 00:17:59,020

it and that closed the action and caused

382

00:18:10,050 --> 00:18:08,200

this twitch the shuttle is hugely

383

00:18:12,300 --> 00:18:10,060

important to the space program the space

384

00:18:15,650 --> 00:18:12,310

program is one of America's crown jewels

385

00:18:18,210 --> 00:18:15,660

and the shuttle is the centerpiece of it

386

00:18:21,450 --> 00:18:18,220

two things really stick out in my mind

387

00:18:23,670 --> 00:18:21,460

that that I just absolutely love number

388

00:18:26,340 --> 00:18:23,680

one is seeing a launch that's a very

389

00:18:28,020 --> 00:18:26,350

very moving experience and until you

390

00:18:29,970 --> 00:18:28,030

have experienced it you can't really

391

00:18:32,820 --> 00:18:29,980

describe it there's nothing really

392

00:18:36,210 --> 00:18:32,830

prepares you for that experience the

393

00:18:38,100 --> 00:18:36,220

other thing is in my family we like to

394

00:18:40,050 --> 00:18:38,110

look on the website for when the space

395

00:18:42,450 --> 00:18:40,060

station is going to pass over again and

396

00:18:45,660 --> 00:18:42,460

I take my kids outside and we look at

397

00:18:47,640 --> 00:18:45,670

the space station go by and to see the

398

00:18:50,700 --> 00:18:47,650

brightest star in the night sky cross

399

00:18:52,830 --> 00:18:50,710

over and you can tell your children that

400

00:18:55,530 --> 00:18:52,840

the people that you worked with helped

401

00:19:01,190 --> 00:18:55,540

put it there that's quite special very

402

00:19:10,169 --> 00:19:07,019

in October I was at a suppliers it was

403

00:19:12,449 --> 00:19:10,179

one of his open house events and I think

404

00:19:13,619 --> 00:19:12,459

was a 20 year celebration and it was the

405

00:19:15,899 --> 00:19:13,629

first time I was getting the opportunity

406

00:19:20,149 --> 00:19:15,909

to go and be with an astronaut and the

407

00:19:23,009 --> 00:19:20,159

astronaut was Robert hoot Gibson and I

408

00:19:24,930 --> 00:19:23,019

remember it very well because I when I

409

00:19:26,999 --> 00:19:24,940

showed up I had a lot of anticipation

410

00:19:30,389 --> 00:19:27,009

and being able to meet him talk to him

411

00:19:33,060 --> 00:19:30,399

get to know him and I remember that when

412

00:19:35,310 --> 00:19:33,070

I was introduced we had a quick little

413

00:19:36,539 --> 00:19:35,320

conversation and then he said well I'll

414

00:19:39,810 --> 00:19:36,549

get back to you and talk to you later

415

00:19:41,699 --> 00:19:39,820

well later never came because of the

416

00:19:43,949 --> 00:19:41,709

fact that we were so busy with the

417

00:19:45,239 --> 00:19:43,959

events and everything so after

418

00:19:47,159 --> 00:19:45,249

everything was over I went back to the

419

00:19:49,409 --> 00:19:47,169

hotel and I thought jeez I would have

420

00:19:52,079 --> 00:19:49,419

loved to have talked to him in shortly

421

00:19:54,329 --> 00:19:52,089

thereafter the phone rang and I picked

422

00:19:56,639 --> 00:19:54,339

it up and he said Lee and I said yeah I

423

00:19:58,199 --> 00:19:56,649

said this is hoot hoot Gibson he says

424

00:20:00,989 --> 00:19:58,209

how about meeting me downstairs in the

425

00:20:02,459 --> 00:20:00,999

lounge and have a couple beers and i

426

00:20:04,979 --> 00:20:02,469

thought god what a great thing to have

427

00:20:07,049 --> 00:20:04,989

happen he showed me he's a real person

428

00:20:10,019 --> 00:20:07,059

he was talking about his family his

429

00:20:11,879 --> 00:20:10,029

goals in life what he wanted and I think

430

00:20:14,190 --> 00:20:11,889

from that I took the fact that this is

431

00:20:16,379 --> 00:20:14,200

really for the astronauts and we need to