



There's a few responsibilities for everyone to get involved to and we will be going to work for this foundation

1
00:00:05,749 --> 00:00:04,100
weird the payload Operations Center with

2
00:00:08,270 --> 00:00:05,759
Lamar Stacy a payload operations

3
00:00:09,680 --> 00:00:08,280
director and Lamar it looks like we're

4
00:00:13,039 --> 00:00:09,690
in something of a mission control room

5
00:00:14,330 --> 00:00:13,049
yes we are this is the you could call

6
00:00:15,829 --> 00:00:14,340
the Mission Control Center but this is

7
00:00:17,900 --> 00:00:15,839
our payload Operations Center that we

8
00:00:19,340 --> 00:00:17,910
used to support science on board the

9
00:00:20,990 --> 00:00:19,350
International Space Station and we've

10
00:00:23,570 --> 00:00:21,000
been operating continuously out of this

11
00:00:25,390 --> 00:00:23,580
facility for the last five years will be

12
00:00:27,560 --> 00:00:25,400
marking our fifth anniversary this month

13
00:00:30,080 --> 00:00:27,570

so what kinds of things do you do in

14

00:00:32,389 --> 00:00:30,090

this room we responsible for making sure

15

00:00:34,130 --> 00:00:32,399

that we have put together a plan to

16

00:00:35,810 --> 00:00:34,140

conduct the science operations for all

17

00:00:37,610 --> 00:00:35,820

the u.s. payloads on board International

18

00:00:40,280 --> 00:00:37,620

Space Station then we have the resources

19

00:00:43,220 --> 00:00:40,290

in place such as the crew time to power

20

00:00:45,200 --> 00:00:43,230

the video the data downlink and all the

21

00:00:47,840 --> 00:00:45,210

storage items that we need to operate

22

00:00:49,700 --> 00:00:47,850

the science and to get the scientists

23

00:00:50,900 --> 00:00:49,710

their results they're looking for about

24

00:00:53,119 --> 00:00:50,910

how much science are we doing on the

25

00:00:55,400 --> 00:00:53,129

space station well today will only teach

26
00:00:57,290 --> 00:00:55,410
crew members on orbit at any given time

27
00:00:59,510 --> 00:00:57,300
we're getting on the average over the

28
00:01:02,770 --> 00:00:59,520
direction of an increment to six months

29
00:01:05,240 --> 00:01:02,780
long about five to six hours per week

30
00:01:07,219 --> 00:01:05,250
when we get three crew members back on

31
00:01:10,010 --> 00:01:07,229
for space testing again will you expect

32
00:01:13,399 --> 00:01:10,020
to see that number rise to perhaps as

33
00:01:14,899 --> 00:01:13,409
high as 15 tell me a little bit about

34
00:01:16,280 --> 00:01:14,909
the people in this room and what they do

35
00:01:17,960 --> 00:01:16,290
I know they're sometimes referred to as

36
00:01:20,390 --> 00:01:17,970
a third crew member on the space station

37
00:01:21,770 --> 00:01:20,400
tell me what that means well that means

38
00:01:23,270 --> 00:01:21,780

the folks here on the ground are working

39

00:01:24,830 --> 00:01:23,280

closely with the crew to make sure that

40

00:01:26,810 --> 00:01:24,840

all the sciences accomplished and that

41

00:01:29,630 --> 00:01:26,820

includes bringing down the video the

42

00:01:31,190 --> 00:01:29,640

data operating the racks and having

43

00:01:33,140 --> 00:01:31,200

clear communications with the crew which

44

00:01:35,300 --> 00:01:33,150

is what this position are PACOM our

45

00:01:37,819 --> 00:01:35,310

payload communicator does for us all

46

00:01:41,840 --> 00:01:37,829

right we got Scotty Dave Scotty over

47

00:01:44,149 --> 00:01:41,850

here right I got it you actually talk to

48

00:01:45,859 --> 00:01:44,159

the astronauts right yes have a very

49

00:01:47,660 --> 00:01:45,869

good time doing that you build a

50

00:01:49,410 --> 00:01:47,670

relationship with them right yes and we

51
00:01:51,719 --> 00:01:49,420
try to do that in

52
00:01:53,789 --> 00:01:51,729
we have Kerr training and Houston will

53
00:01:56,219 --> 00:01:53,799
go down to facilitate the session take

54
00:01:57,719 --> 00:01:56,229
notes of action items or things like

55
00:02:00,060 --> 00:01:57,729
that a little bit of what we call

56
00:02:02,520 --> 00:02:00,070
FaceTime get to know them a little bit

57
00:02:03,840 --> 00:02:02,530
and then as an increment progresses you

58
00:02:06,090 --> 00:02:03,850
just start getting know people and they

59
00:02:07,800 --> 00:02:06,100
get to start to know you now is an

60
00:02:09,210 --> 00:02:07,810
official business always or do you get

61
00:02:11,340 --> 00:02:09,220
to really cut up with them sometimes I

62
00:02:13,920 --> 00:02:11,350
know you like to cut it well there are

63
00:02:16,440 --> 00:02:13,930

times when we get to loosen up a little

64

00:02:18,000 --> 00:02:16,450

bit particularly sometimes we do it's a

65

00:02:19,350 --> 00:02:18,010

little extra things on Saturday and a

66

00:02:21,540 --> 00:02:19,360

little bit of little bit of free time

67

00:02:24,059 --> 00:02:21,550

but just have some pep some light banter

68

00:02:25,770 --> 00:02:24,069

back and forth yeah you have six months

69

00:02:27,150 --> 00:02:25,780

and maybe at the beginning you kind of

70

00:02:29,580 --> 00:02:27,160

know these people but at the end they're

71

00:02:32,610 --> 00:02:29,590

my family right that's about the size of

72

00:02:34,830 --> 00:02:32,620

it it takes a few weeks typically for

73

00:02:36,479 --> 00:02:34,840

everybody to get loosened up and into

74

00:02:39,000 --> 00:02:36,489

what's gonna work for this round and

75

00:02:41,640 --> 00:02:39,010

then things just a vote from there can

76

00:02:44,280 --> 00:02:41,650

you tell him I said hi not right now

77

00:02:48,000 --> 00:02:44,290

they're in priestly wake them up it's

78

00:02:50,220 --> 00:02:48,010

okay Scotty thank you tell me about some

79

00:02:51,690 --> 00:02:50,230

of the other positions around here okay

80

00:02:53,100 --> 00:02:51,700

well sitting up here at the front of the

81

00:02:55,710 --> 00:02:53,110

room we have our lead increment

82

00:02:58,080 --> 00:02:55,720

scientist representative who takes care

83

00:03:00,300 --> 00:02:58,090

of making sure we meet all the science

84

00:03:02,789 --> 00:03:00,310

goals of the increment and on the other

85

00:03:04,500 --> 00:03:02,799

side of the room here at the front we

86

00:03:06,569 --> 00:03:04,510

have our payload rack officer who make

87

00:03:08,910 --> 00:03:06,579

sure that all the racks and board space

88

00:03:11,910 --> 00:03:08,920

station are properly providing power and

89

00:03:14,070 --> 00:03:11,920

other resources operating experiments

90

00:03:16,170 --> 00:03:14,080

been standing here behind are seated

91

00:03:18,420 --> 00:03:16,180

here behind me we have our OC or

92

00:03:20,220 --> 00:03:18,430

operations controller which make sure

93

00:03:22,260 --> 00:03:20,230

that our activities for today and

94

00:03:23,760 --> 00:03:22,270

tomorrow are prepared we have the

95

00:03:26,339 --> 00:03:23,770

procedures in place and all the

96

00:03:28,470 --> 00:03:26,349

activities ready to perform the science

97

00:03:30,059 --> 00:03:28,480

operations and in the back of the room

98

00:03:32,460 --> 00:03:30,069

we have the data management coordinator

99

00:03:34,500 --> 00:03:32,470

who makes sure that we get all of the

100

00:03:36,090 --> 00:03:34,510

data in the video in the photography

101

00:03:37,610 --> 00:03:36,100

from the science to the ground and

102

00:03:39,900 --> 00:03:37,620

distributed to the payload developers

103

00:03:41,580 --> 00:03:39,910

after all it be fruitless to do all this

104

00:03:44,940 --> 00:03:41,590

work and not get them the valuable data

105

00:03:47,370 --> 00:03:44,950

that we've collected for them and that

106

00:03:49,220 --> 00:03:47,380

that says a lot to you work real closely

107

00:03:51,539 --> 00:03:49,230

with people all around the world right

108

00:03:54,539 --> 00:03:51,549

absolutely scientists all across the US

109

00:03:56,550 --> 00:03:54,549

and into Europe and we've had one or two

110

00:03:58,110 --> 00:03:56,560

pilots from Japan and as the space

111

00:03:59,820 --> 00:03:58,120

station growth will be working more and

112

00:04:02,009 --> 00:03:59,830

more directly with both the Europeans

113

00:04:03,449 --> 00:04:02,019

and the Japanese and they contact you

114

00:04:05,009 --> 00:04:03,459

when they want to find out something

115

00:04:07,020 --> 00:04:05,019

about their experiment right now it went

116

00:04:08,670 --> 00:04:07,030

maybe as long as those pillars are

117

00:04:11,699 --> 00:04:08,680

operating in the u.s. segment or they're

118

00:04:13,350 --> 00:04:11,709

utilizing US assets we would be the come

119

00:04:15,390 --> 00:04:13,360

to point we would be the persons they

120

00:04:20,009 --> 00:04:15,400

would be talking to and there's one man

121

00:04:21,900 --> 00:04:20,019

in charge right sometimes absolutely hit

122

00:04:23,909 --> 00:04:21,910

any given time we have our payload

123

00:04:26,159 --> 00:04:23,919

operations director here on console

124

00:04:29,010 --> 00:04:26,169

we've taken care to make sure that

125

00:04:31,409 --> 00:04:29,020

everyone in disc control centers

126

00:04:33,029 --> 00:04:31,419

performing their job and they are the

127

00:04:34,529 --> 00:04:33,039

point of authority for the flight

128

00:04:37,080 --> 00:04:34,539

director they're a member of the flight

129

00:04:38,909 --> 00:04:37,090

directors team at MCC in there are point

130

00:04:41,550 --> 00:04:38,919

of commitment to say yes sir we are

131

00:04:44,219 --> 00:04:41,560

ready to go and you've done this job a

132

00:04:46,230 --> 00:04:44,229

lot too I've done it for the last five

133

00:04:47,960 --> 00:04:46,240

years for an international space station

134

00:04:49,890 --> 00:04:47,970

and hope to be doing it for many more

135

00:04:52,440 --> 00:04:49,900

sounds like you guys are gonna be around

136

00:04:55,920 --> 00:04:52,450

a while oh we plan to we'd like to see

137

00:04:57,570 --> 00:04:55,930

Space Station become fully functional to

138

00:05:00,050 --> 00:04:57,580

go to assembly complete with both

139

00:05:02,909 --> 00:05:00,060

European module via Japanese module and

140

00:05:05,070 --> 00:05:02,919

the Russian science module and to be

141

00:05:07,080 --> 00:05:05,080

ready to go to sports science one

142

00:05:10,120 --> 00:05:07,090

hundred percent I want a job as a peck

143

00:05:12,620 --> 00:05:10,130

on I want to talk to the astronaut

144

00:05:13,850 --> 00:05:12,630

there is a certification process you

145

00:05:15,470 --> 00:05:13,860

could go through to do that as long as

146

00:05:17,270 --> 00:05:15,480

you got the right technical background

147

00:05:18,860 --> 00:05:17,280

and that's how we get folks into this

148

00:05:21,230 --> 00:05:18,870

job we look for those with the right

149

00:05:25,040 --> 00:05:21,240

technical background engineering science

150

00:05:27,080 --> 00:05:25,050

related others if they qualify and go to

151

00:05:29,360 --> 00:05:27,090

a certification process which includes

152

00:05:31,550 --> 00:05:29,370

simulations that we use another room for

153

00:05:33,170 --> 00:05:31,560

that looks much like this one but

154

00:05:34,940 --> 00:05:33,180

basically we throw them in there and

155

00:05:36,560 --> 00:05:34,950

throw a lot of problems at them and see

156

00:05:38,030 --> 00:05:36,570

if they're ready to cope and know how to

157

00:05:40,700 --> 00:05:38,040

follow the right processes and

158

00:05:42,350 --> 00:05:40,710

procedures I'll keep that in mind Lamar

159

00:05:44,330 --> 00:05:42,360

thanks so much for having us out today

160

00:05:45,800 --> 00:05:44,340

this is a lot of interesting stuff that

161

00:05:47,150 --> 00:05:45,810

you have going on here Marshall well

162

00:05:48,650 --> 00:05:47,160

you're welcome and we look forward to

163

00:05:51,500 --> 00:05:48,660

having you back for our ten-year

164

00:05:53,120 --> 00:05:51,510

anniversary those are a couple of really

165

00:05:55,010 --> 00:05:53,130

great capabilities shared Marshall and

166

00:05:56,960 --> 00:05:55,020

there's so many more to see find out