



1
00:00:00,000 --> 00:02:08,359

l
2
00:02:25,410 --> 00:02:11,580

and Janet's we hear you loud and clear

3
00:02:30,860 --> 00:02:25,420

on air-to-ground one great and hustle

4
00:02:34,470 --> 00:02:30,870

this comm check ps1 how do you read

5
00:02:40,110 --> 00:02:34,480

please read you five-by-five sure how do

6
00:02:43,350 --> 00:02:40,120

you read us a really great hey you did

7
00:02:45,180 --> 00:02:43,360

it fine it's great to see y'all you look

8
00:02:46,860 --> 00:02:45,190

great and i want to remind you of an

9
00:02:51,780 --> 00:02:46,870

agreement about a bogam arm before you

10
00:02:53,670 --> 00:02:51,790

go the mid-deck okay actually I got to

11
00:02:56,370 --> 00:02:53,680

get a camcorder take up there with me

12
00:02:58,470 --> 00:02:56,380

too because uh what I was no he's up

13
00:03:00,660 --> 00:02:58,480

there is in lockers it bangs are in a

14

00:04:04,559 --> 00:03:00,670

sleep text pretty much sob to get all

15

00:04:09,360 --> 00:04:06,839

this is Mission Control Houston this

16

00:04:12,330 --> 00:04:09,370

live image coming down from Columbia's

17

00:04:14,399 --> 00:04:12,340

mid deck area showing payload specialist

18

00:04:16,890 --> 00:04:14,409

Greg Montero's who's working on the mid

19

00:04:19,349 --> 00:04:16,900

deck area also coming into view

20

00:04:23,430 --> 00:04:19,359

periodically we're in the blue shirt is

21

00:04:29,370 --> 00:04:23,440

committed Jim hustle he's currently

22

00:04:31,320 --> 00:04:29,380

working to finish up the the Assembly of

23

00:04:35,909 --> 00:04:31,330

the bicycle ergometer that'll be used

24

00:04:38,610 --> 00:04:35,919

for the Astros to exercise on this video

25

00:04:41,909 --> 00:04:38,620

is coming down from from Columbia using

26
00:04:44,040 --> 00:04:41,919
the high pack video system that's the

27
00:04:45,810 --> 00:04:44,050
system that allows multiple video images

28
00:04:47,760 --> 00:04:45,820
to be digitally compressed and then sit

29
00:04:50,670 --> 00:04:47,770
down to the ground where they can then

30
00:04:54,480 --> 00:04:50,680
be decoded and each signal individually

31
00:04:56,909 --> 00:04:54,490
sent to the investigation team for that

32
00:04:59,430 --> 00:04:56,919
particular experiment this allows

33
00:05:03,120 --> 00:04:59,440
multiple tombs insight into their

34
00:05:07,010 --> 00:05:03,130
particular payload at the same time the

35
00:05:41,590 --> 00:05:07,020
time being displayed on the screen is

36
00:05:45,520 --> 00:05:43,090
this is Mission Control Houston we

37
00:05:47,350 --> 00:05:45,530
continue to take live video through the

38
00:05:50,920 --> 00:05:47,360

high pack television system of the mid

39

00:05:54,370 --> 00:05:50,930

deck area of columbia and view

40

00:05:59,310 --> 00:05:54,380

astronauts done Thomas and Greg Len

41

00:06:01,930 --> 00:05:59,320

terrace who are working some photo

42

00:06:08,130 --> 00:06:01,940

documentation activities with one of the

43

00:06:20,669 --> 00:06:10,870

Columbia's currently approaching the

44

00:06:29,469 --> 00:06:26,159

some shelf space that for express to him

45

00:06:31,839 --> 00:06:29,479

hey Trina Apple to the check out of

46

00:06:33,459 --> 00:06:31,849

experiment power is complete and having

47

00:06:35,739 --> 00:06:33,469

what's good unexpressed as you know this

48

00:06:37,899 --> 00:06:35,749

is one of our premier facilities that

49

00:06:40,629 --> 00:06:37,909

will be flying on space station shortly

50

00:06:42,399 --> 00:06:40,639

in a few years here and we'll have up to

51
00:06:44,559 --> 00:06:42,409
eight of these up on board at any given

52
00:06:46,149 --> 00:06:44,569
time and this is the first check out up

53
00:06:47,919 --> 00:06:46,159
of them and everything is looking great

54
00:06:50,949 --> 00:06:47,929
on it so far we're really excited about

55
00:06:56,619 --> 00:06:50,959
flying actually through space station on

56
00:07:02,409 --> 00:06:56,629
our shuttle flight cabin is great to

57
00:07:04,629 --> 00:07:02,419
this up and running it would there be

58
00:07:06,549 --> 00:07:04,639
any interest in studying the phase

59
00:07:13,299 --> 00:07:06,559
activation early or would you like me to

60
00:07:18,149 --> 00:07:13,309
wait till the 16 25 we'd like you to

61
00:07:18,159 --> 00:08:22,730
okay we'll be set up right over

62
00:08:27,470 --> 00:08:25,080
again going back to the orbiter crew

63
00:08:31,880 --> 00:08:27,480

activities the orbiter crew is currently

64

00:08:33,990 --> 00:08:31,890

setting up video observation of the

65

00:08:40,020 --> 00:08:34,000

astro plant generic bioprocessing

66

00:08:43,080 --> 00:08:40,030

apparatus astro p GBA looks at the

67

00:08:46,320 --> 00:08:43,090

effect of microgravity and space on

68

00:08:50,000 --> 00:08:46,330

certain series of plants but what makes

69

00:08:52,140 --> 00:08:50,010

this experiment more interesting and

70

00:08:54,690 --> 00:08:52,150

doubly important to the Space Lab

71

00:08:58,530 --> 00:08:54,700

mission and future International Space

72

00:09:00,810 --> 00:08:58,540

Station missions is that Astro p GBA

73

00:09:05,400 --> 00:09:00,820

will be moved from its location in the

74

00:09:09,480 --> 00:09:05,410

mid deck area to the Express rack aboard

75

00:09:12,000 --> 00:09:09,490

the Space Lab module that move will

76

00:09:14,340 --> 00:09:12,010

occur later in the flight the Express

77

00:09:17,370 --> 00:09:14,350

rack is a rack specifically designed to

78

00:09:19,530 --> 00:09:17,380

operate as a fully setup and functional

79

00:09:22,830 --> 00:09:19,540

rack where experiments can be inserted

80

00:09:25,740 --> 00:09:22,840

and removed specialist on Thomas is

81

00:09:28,500 --> 00:09:25,750

working on the large isothermal furnace

82

00:09:31,740 --> 00:09:28,510

and specifically we are live with you on

83

00:09:33,900 --> 00:09:31,750

TV see number one and four and ask a

84

00:09:36,300 --> 00:09:33,910

question we do see an image on the

85

00:09:38,490 --> 00:09:36,310

viewfinder above TVC number two which we

86

00:09:40,290 --> 00:09:38,500

thought was in operational can you

87

00:09:45,060 --> 00:09:40,300

confirm that you are seeing an image or

88

00:09:48,420 --> 00:09:45,070

if the quality of the image yeah you

89

00:09:49,770 --> 00:09:48,430

guys have good eyes to pick that up we

90

00:09:52,020 --> 00:09:49,780

do have a good image up there good

91

00:09:54,120 --> 00:09:52,030

quality image on TV see number two the

92

00:09:56,070 --> 00:09:54,130

monitor is there and when I came back

93

00:09:58,290 --> 00:09:56,080

from lunch you know it's just an hour

94

00:10:03,360 --> 00:09:58,300

and a half ago that image is not there

95

00:10:06,030 --> 00:10:03,370

so somehow we got it okay well wonderful

96

00:10:07,530 --> 00:10:06,040

will accept magic any time so we will

97

00:10:12,270 --> 00:10:07,540

get rid of your next activity to

98

00:10:13,770 --> 00:10:12,280

troubleshoot then you guys were able to

99

00:10:58,810 --> 00:10:13,780

pick that up now I know we can't hide

100

00:11:03,620 --> 00:11:01,610

that's all I'm looking at is ml 1 on

101

00:11:06,440 --> 00:11:03,630

page india three you want it for spot

102

00:11:19,460 --> 00:11:06,450

number six okay and I've got a few more

103

00:11:20,780 --> 00:11:19,470

instructions for you okay on step alpha

104

00:11:23,030 --> 00:11:20,790

you shouldn't have to do that because

105

00:11:27,470 --> 00:11:23,040

we're in a power down state but we do

106

00:11:29,360 --> 00:11:27,480

want to check on Romeo 6 tango we want

107

00:11:42,440 --> 00:11:29,370

to check that circuit breakers one two

108

00:11:43,910 --> 00:11:42,450

three and four are all off you want to

109

00:11:46,250 --> 00:11:43,920

make sure the circuit breakers are often

110

00:11:48,650 --> 00:11:46,260

i'm looking at them and they are and

111

00:11:56,690 --> 00:11:48,660

then also the switches are off as well

112

00:11:59,690 --> 00:11:56,700

one two three and four and then on Romeo

113

00:12:13,579 --> 00:11:59,700

seven whiskey that circuit breaker for

114

00:12:15,590 --> 00:12:13,589

DC utility power is off okay and also on

115

00:12:18,230 --> 00:12:15,600

Romeo seven whiskey checked at circuit

116

00:12:21,199 --> 00:12:18,240

breakers one two three and four are off

117

00:12:25,550 --> 00:12:21,209

for maybe on and if it is on you can

118

00:12:27,019 --> 00:12:25,560

take it to the off position all for

119

00:12:28,880 --> 00:12:27,029

those circuit breakers are on you want

120

00:12:35,449 --> 00:12:28,890

me to take them all off and you care

121

00:12:38,360 --> 00:12:35,459

about the order in line let's go

122

00:12:45,139 --> 00:12:38,370

Spacelab Colombia with the daily status

123

00:12:49,790 --> 00:12:45,149

cue card go ahead for the daily standard

124

00:12:52,160 --> 00:12:49,800

cue cards good morning I've got the data

125

00:12:57,620 --> 00:12:52,170

for you when you're ready to copy the

126

00:13:01,490 --> 00:12:57,630

first one is the PG d CGS test on MF 71

127

00:13:09,879 --> 00:13:01,500

echo and the temperature was 22

128

00:13:15,590 --> 00:13:12,470

okay you have a go to power off those

129

00:13:25,579 --> 00:13:15,600

circuit breakers on our seven whiskey no

130

00:13:30,579 --> 00:13:25,589

particular order and give me a holler

131

00:13:35,090 --> 00:13:33,379

okay although I think you guys must have

132

00:13:36,499 --> 00:13:35,100

been watching me on TV and waited i

133

00:13:38,389 --> 00:13:36,509

finished studying the book i was reading