



FLIGHT DIRECTOR

1
00:00:18,470 --> 00:00:16,390
step 1101 our ground camera system is

2
00:00:21,349 --> 00:00:18,480
verified ready to support lunch bye copy

3
00:00:25,269 --> 00:00:23,109
we have a go observation

4
00:00:27,349 --> 00:00:25,279
clear skies

5
00:00:28,870 --> 00:00:27,359
10 miles visibility

6
00:00:30,470 --> 00:00:28,880
though the

7
00:00:32,389 --> 00:00:30,480
sls observers still reporting the

8
00:00:34,630 --> 00:00:32,399
shallow fog

9
00:00:37,750 --> 00:00:34,640
wins one three zero at two how did the

10
00:00:40,310 --> 00:00:37,760
uh sta characterize that

11
00:00:42,790 --> 00:00:40,320
it was not approaching the uh the navits

12
00:00:44,709 --> 00:00:42,800
and that it was down

13
00:00:46,869 --> 00:00:44,719

really towards the water and very

14

00:00:49,029 --> 00:00:46,879

shallow

15

00:00:51,350 --> 00:00:49,039

and not an issue nor do i expect it to

16

00:00:52,709 --> 00:00:51,360

be is it do we expect it to get worse or

17

00:00:54,950 --> 00:00:52,719

to get better

18

00:00:56,630 --> 00:00:54,960

really stay the same until probably uh

19

00:00:58,150 --> 00:00:56,640

around sunrise or so

20

00:00:59,590 --> 00:00:58,160

but i'm also looking at the uh some of

21

00:01:01,110 --> 00:00:59,600

the tower visibilities and they're not

22

00:01:02,869 --> 00:01:01,120

going down so

23

00:01:05,030 --> 00:01:02,879

we're looking really good with that

24

00:01:06,710 --> 00:01:05,040

okay so no no expectation that'll get

25

00:01:09,109 --> 00:01:06,720

any worse right not affirmative what is

26

00:01:10,710 --> 00:01:09,119

your dew point spread

27

00:01:12,630 --> 00:01:10,720

well our temperature is 57 and dew point

28

00:01:15,030 --> 00:01:12,640

is 57 but it's the same as what it was

29

00:01:17,270 --> 00:01:15,040

last night at this time as well

30

00:01:23,830 --> 00:01:17,280

so it's probably more we're getting more

31

00:01:31,670 --> 00:01:28,469

okay and it is uh 5 30 5 45 out there

32

00:01:33,190 --> 00:01:31,680

an hour and a half prior to sunrise

33

00:01:35,030 --> 00:01:33,200

affirmative

34

00:01:36,710 --> 00:01:35,040

and you think that the fog is not going

35

00:01:38,149 --> 00:01:36,720

to get any worse than it is currently

36

00:01:39,670 --> 00:01:38,159

and negative not with the light

37

00:01:43,270 --> 00:01:39,680

southeast winds that's very favorable

38

00:01:46,550 --> 00:01:44,630

if they were westerly there would be

39

00:01:47,590 --> 00:01:46,560

more concern but with the southeast wind

40

00:01:49,590 --> 00:01:47,600

it's

41

00:01:51,190 --> 00:01:49,600

almost impossible to get too much fog

42

00:01:53,030 --> 00:01:51,200

there

43

00:01:55,109 --> 00:01:53,040

okay so winds are going to prevent any

44

00:02:01,350 --> 00:01:55,119

worse fog affirmative

45

00:02:04,069 --> 00:02:02,709

and a temperature dew point spreads i

46

00:02:06,230 --> 00:02:04,079

gave you this at the surface up about

47

00:02:08,469 --> 00:02:06,240

the 54 feet there's about a five degree

48

00:02:10,150 --> 00:02:08,479

spread

49

00:02:12,790 --> 00:02:10,160

we'll forecast

50

00:02:15,510 --> 00:02:12,800

and go obs at

51
00:02:18,710 --> 00:02:15,520
ksc also at zaragoza and marone so two

52
00:02:21,990 --> 00:02:20,470
everything's shaping up to be a good day

53
00:02:25,510 --> 00:02:22,000
to launch but i do want to come around

54
00:02:27,589 --> 00:02:25,520
the room get your go no go one more time

55
00:02:30,790 --> 00:02:27,599
so go no go for launch down starting

56
00:02:32,390 --> 00:02:30,800
down front gc go guidance go and uh

57
00:02:34,550 --> 00:02:32,400
fido's gonna have an update for the

58
00:02:36,470 --> 00:02:34,560
zergos attack in

59
00:02:37,670 --> 00:02:36,480
fight we go we'll talk to you about it

60
00:02:41,830 --> 00:02:37,680
later

61
00:02:43,750 --> 00:02:41,840
prop go cnc go max go eagle go

62
00:02:47,990 --> 00:02:43,760
go fao go

63
00:02:52,470 --> 00:02:48,000

uh acl go dps go and go go

64

00:02:55,430 --> 00:02:52,480

pdrs go surgeon go booster go pl

65

00:02:56,869 --> 00:02:55,440

go all right capcom go we're go for

66

00:02:58,229 --> 00:02:56,879

launch all right

67

00:03:00,309 --> 00:02:58,239

fido what's the story in the zergos

68

00:03:01,910 --> 00:03:00,319

detective it does continue with

69

00:03:03,910 --> 00:03:01,920

intermittent alarms and the techs right

70

00:03:05,910 --> 00:03:03,920

now are recommended that we call that

71

00:03:08,070 --> 00:03:05,920

tack end no go he thinks he may be able

72

00:03:10,070 --> 00:03:08,080

to fix it but until he gets in there and

73

00:03:11,830 --> 00:03:10,080

does that he's recommending that attack

74

00:03:13,110 --> 00:03:11,840

can be considered failed is this the

75

00:03:17,110 --> 00:03:13,120

dual string

76

00:03:18,470 --> 00:03:17,120

so both both sides are failed yes sir

77

00:03:20,630 --> 00:03:18,480

guidance do we have a good backup for

78

00:03:23,589 --> 00:03:20,640

there uh for that fight flight no it's

79

00:03:26,390 --> 00:03:23,599

just a dme so by the rules we can't uh

80

00:03:28,470 --> 00:03:26,400

use that though there's a single

81

00:03:30,149 --> 00:03:28,480

string in the primary slot in a dual

82

00:03:34,550 --> 00:03:30,159

string in the secondary

83

00:03:40,550 --> 00:03:36,550

so based on tech and status we're

84

00:03:44,229 --> 00:03:42,309

that is what the techs are recommending

85

00:03:46,869 --> 00:03:44,239

with the tekken there like

86

00:03:48,070 --> 00:03:46,879

still getting a story together okay

87

00:03:49,509 --> 00:03:48,080

um

88

00:03:51,350 --> 00:03:49,519

i'd rather have an intermittent attack

89

00:03:52,789 --> 00:03:51,360

and the no tech and so what is

90

00:03:54,470 --> 00:03:52,799

intermittent do we have a feel for the

91

00:03:57,350 --> 00:03:54,480

frequency of ill trying to get that

92

00:03:59,270 --> 00:03:57,360

story flat okay

93

00:04:00,789 --> 00:03:59,280

copy go with marone

94

00:04:02,789 --> 00:04:00,799

i'd rather they not fiddle with it to be

95

00:04:03,990 --> 00:04:02,799

honest with you at this point

96

00:04:09,910 --> 00:04:04,000

unless it's

97

00:04:15,030 --> 00:04:11,589

yes sir can you characterize these

98

00:04:17,030 --> 00:04:15,040

reports from the sta pilot i sure can

99

00:04:20,069 --> 00:04:17,040

the sta pilot has

100

00:04:24,390 --> 00:04:20,079

done runs to both runways 1-5 and the

101
00:04:28,150 --> 00:04:24,400
primary 3-3 in both cases

102
00:04:31,270 --> 00:04:28,160
visibility of the landing aids was

103
00:04:32,310 --> 00:04:31,280
excellent there was no apparent impact

104
00:04:34,550 --> 00:04:32,320
from

105
00:04:35,590 --> 00:04:34,560
observed shallow ground fog so no issues

106
00:04:37,590 --> 00:04:35,600
there

107
00:04:39,749 --> 00:04:37,600
for runway 3-3

108
00:04:41,270 --> 00:04:39,759
with one of the xenons out there was no

109
00:04:44,950 --> 00:04:41,280
observed change there either so that

110
00:04:51,189 --> 00:04:48,230
workload was low to both sides and so

111
00:04:51,909 --> 00:04:51,199
from the sda standpoint either runway is

112
00:04:58,390 --> 00:04:51,919
a

113
00:05:02,230 --> 00:04:58,400

uh we could go to either one

114

00:05:06,710 --> 00:05:04,070

jrps go ahead

115

00:05:08,629 --> 00:05:06,720

I minus 15 recorder activation copy and

116

00:05:11,189 --> 00:05:08,639

here's some planes

117

00:05:14,150 --> 00:05:11,199

houston flag

118

00:05:16,390 --> 00:05:14,160

step 1121 I minus 15 recorder activation

119

00:05:20,070 --> 00:05:16,400

copy we'll put in word

120

00:05:21,830 --> 00:05:20,080

ms-1 and ms4 otc activate v10 recorders

121

00:05:37,270 --> 00:05:21,840

sending a little bit of work

122

00:05:37,280 --> 00:05:42,310

safety consoles go

123

00:05:46,790 --> 00:05:44,550

final flight yes sir airboard software

124

00:05:48,390 --> 00:05:46,800

up and running yes there it is gc are we

125

00:05:50,629 --> 00:05:48,400

fsm enabled

126
00:05:55,909 --> 00:05:50,639
hey farmer to fly okay i'm gonna enable

127
00:05:58,070 --> 00:05:56,950
i know

128
00:06:02,710 --> 00:05:58,080
we're going to make it a two engine

129
00:06:09,110 --> 00:06:04,790
side booster three engines ready

130
00:06:09,120 --> 00:06:14,070
45

131
00:06:14,080 --> 00:06:26,790
20

132
00:06:26,800 --> 00:06:37,350
start

133
00:06:37,360 --> 00:06:48,309
slipped off confirmed copy

134
00:06:55,990 --> 00:06:51,510
discovery world program gradual

135
00:07:12,790 --> 00:06:57,589
flight guidance good role maneuver can't

136
00:07:29,110 --> 00:07:14,469
sorry left three one four go with the

137
00:07:33,350 --> 00:07:30,469
has to be set

138
00:07:33,360 --> 00:07:45,029

103 converge copy

139

00:07:56,550 --> 00:07:47,110

assist in progress two good engines copy

140

00:08:04,869 --> 00:08:00,230

oh myla two engine towel two engine tail

141

00:08:04,879 --> 00:08:10,070

discovery copies two engine pads

142

00:08:12,710 --> 00:08:10,830

pressed

143

00:08:24,469 --> 00:08:12,720

ato

144

00:08:32,070 --> 00:08:24,479

two minutes to change

145

00:08:39,029 --> 00:08:34,149

single engine op3

146

00:08:39,039 --> 00:08:46,550

discovery single engine knobs three

147

00:08:46,560 --> 00:08:52,630

rolling heads up

148

00:09:00,389 --> 00:08:55,509

single engine zeragosa 104

149

00:09:04,550 --> 00:09:03,110

discovery copy single engine

150

00:09:05,670 --> 00:09:04,560

see booster what kind of shutdown plan

151
00:09:07,110 --> 00:09:05,680
we're looking at we'll shut down plan

152
00:09:09,509 --> 00:09:07,120
flight everything looks good here

153
00:09:18,550 --> 00:09:09,519
nominal shutdown excellent and prop go

154
00:09:25,110 --> 00:09:21,030
prestamiko

155
00:09:25,120 --> 00:09:30,550
discovery copies pressed to me go

156
00:09:34,790 --> 00:09:32,389
3g throttling on three in flight we did

157
00:09:36,150 --> 00:09:34,800
lose one vibe sensor on the left engine

158
00:09:37,750 --> 00:09:36,160
still have a good red line there it's on

159
00:09:39,430 --> 00:09:37,760
the fuel pump

160
00:09:41,509 --> 00:09:39,440
copy just dequeued one of the sensors

161
00:09:43,190 --> 00:09:41,519
that's firm

162
00:09:46,710 --> 00:09:43,200
ontagers

163
00:09:49,670 --> 00:09:46,720

nominal mika ohm's one is not required

164

00:09:53,430 --> 00:09:49,680

discovery houston nominal miko

165

00:09:57,590 --> 00:09:55,269

almost one not required can focus on

166

00:10:03,670 --> 00:09:57,600

over the post homes one for procedures

167

00:10:08,389 --> 00:10:05,509

fido for the homes to burn

168

00:10:10,310 --> 00:10:08,399

uh what's our tig uh preliminary 37

169

00:10:12,069 --> 00:10:10,320

minutes even

170

00:10:13,990 --> 00:10:12,079

okay just take what we load or you want

171

00:10:15,269 --> 00:10:14,000

them to load that on top

172

00:10:16,389 --> 00:10:15,279

let's take a look at what comes up

173

00:10:17,910 --> 00:10:16,399

flight

174

00:10:19,590 --> 00:10:17,920

get through the mps don't have a better

175

00:10:21,670 --> 00:10:19,600

idea

176

00:10:24,470 --> 00:10:21,680

okay

177

00:10:26,310 --> 00:10:24,480

started and work

178

00:10:28,870 --> 00:10:26,320

the tvc is closed we'll go for ap height

179

00:10:31,190 --> 00:10:28,880

shutdown okay kept coming and go for ap

180

00:10:33,910 --> 00:10:31,200

headshot down

181

00:10:38,630 --> 00:10:33,920

discovery houston you are go for apu

182

00:10:44,790 --> 00:10:40,710

discovery copies go for ap heart

183

00:10:49,829 --> 00:10:46,790

max is watching you mesh

184

00:10:51,430 --> 00:10:49,839

decks on page 3-4 tail-only control is

185

00:10:53,430 --> 00:10:51,440

not required

186

00:10:55,350 --> 00:10:53,440

everything else will be as written and

187

00:10:58,630 --> 00:10:55,360

we'll be ready for 105 when you get to

188

00:11:02,630 --> 00:11:01,110

discovery copies houston uh control not

189

00:11:05,829 --> 00:11:02,640

required and uh everything else has

190

00:11:07,509 --> 00:11:05,839

written on page three four

191

00:11:10,389 --> 00:11:07,519

apply dps

192

00:11:12,710 --> 00:11:10,399

go yeah i could go for our postcode you

193

00:11:15,110 --> 00:11:12,720

have that go

194

00:11:16,550 --> 00:11:15,120

let's see booster 3-6 as written

195

00:11:20,230 --> 00:11:16,560

that's from play