



1  
00:00:48,229 --> 00:00:45,590  
with that headwind we've still got a

2  
00:00:49,910 --> 00:00:48,239  
place to land whether it peaks or dies

3  
00:00:50,709 --> 00:00:49,920  
off on us we kind of would close in we

4  
00:01:27,510 --> 00:00:50,719  
can

5  
00:01:32,069 --> 00:01:29,030  
i like to have everyone drop any

6  
00:01:35,990 --> 00:01:32,079  
non-essential displays at this time

7  
00:01:40,710 --> 00:01:38,550  
fighter plane

8  
00:01:42,710 --> 00:01:40,720  
yeah are you running your abort software

9  
00:01:44,149 --> 00:01:42,720  
yes sir i am okay

10  
00:01:46,630 --> 00:01:44,159  
gc go ahead and

11  
00:01:59,830 --> 00:01:46,640  
fsm enable fido and i early

12  
00:02:06,230 --> 00:02:02,069  
seo report's too good abort lights copy

13  
00:02:11,110 --> 00:02:09,029

houston flight ntd on 212.

14

00:02:12,550 --> 00:02:11,120

ntd used to fly go ahead

15

00:02:13,990 --> 00:02:12,560

all right any changes to either our

16

00:02:16,070 --> 00:02:14,000

launch window or our lock screen back

17

00:02:17,589 --> 00:02:16,080

hold times

18

00:02:22,790 --> 00:02:17,599

no changes

19

00:02:24,470 --> 00:02:22,800

all right very good

20

00:02:27,110 --> 00:02:24,480

and for all personnel just a reminder we

21

00:02:29,030 --> 00:02:27,120

are at the in plane and our t0 time is

22

00:02:30,309 --> 00:02:29,040

12 56 28

23

00:03:06,070 --> 00:02:30,319

and that gives us a preferred lock

24

00:03:12,630 --> 00:03:08,390

east event running in high frequency

25

00:03:16,070 --> 00:03:14,309

and attention all personnel this is the

26

00:03:16,869 --> 00:03:16,080

entity conducting the launch status

27

00:03:18,710 --> 00:03:16,879

check

28

00:03:23,509 --> 00:03:18,720

verify ready to resume count and go for

29

00:03:24,630 --> 00:03:23,519

launch otc otc is go tbc

30

00:03:27,910 --> 00:03:24,640

ttc

31

00:03:30,710 --> 00:03:27,920

ptc is go lps help the cisco houston

32

00:03:47,670 --> 00:03:30,720

flight houston flight is go milo

33

00:03:51,589 --> 00:03:49,589

and launch director ntd our launch team

34

00:03:53,350 --> 00:03:51,599

is ready to proceed at this time

35

00:03:55,670 --> 00:03:53,360

okay

36

00:04:01,030 --> 00:03:55,680

go you have range clear launch

37

00:04:04,630 --> 00:04:03,030

an entity here your polls go is that

38

00:04:07,429 --> 00:04:04,640

affirmative that is informative we are

39

00:04:09,270 --> 00:04:07,439

all go okay copy that

40

00:04:11,350 --> 00:04:09,280

casey chief processing engineer verify

41

00:04:13,110 --> 00:04:11,360

no constraints to launch no constraints

42

00:04:15,509 --> 00:04:13,120

thank you steve kc safety mission

43

00:04:17,509 --> 00:04:15,519

assurance kfc safety admission insurance

44

00:04:19,110 --> 00:04:17,519

cisco thank you dave

45

00:04:20,629 --> 00:04:19,120

payload launch manager mike space

46

00:04:21,830 --> 00:04:20,639

station processor

47

00:04:23,670 --> 00:04:21,840

thank you bill

48

00:04:26,070 --> 00:04:23,680

range weather weather has no constraints

49

00:04:27,030 --> 00:04:26,080

for launch thank you kathy and ops

50

00:04:28,390 --> 00:04:27,040

manager

51  
00:04:30,150 --> 00:04:28,400  
mike things look real good today thanks

52  
00:04:31,990 --> 00:04:30,160  
to your team for getting us back here uh

53  
00:04:33,110 --> 00:04:32,000  
your good luck endeavor good thank you

54  
00:04:34,550 --> 00:04:33,120  
sir

55  
00:04:38,710 --> 00:04:34,560  
endeavor launch director air to ground

56  
00:04:43,030 --> 00:04:41,350  
okay mark looks like a great day to

57  
00:04:44,550 --> 00:04:43,040  
launch endeavour for the final time so

58  
00:04:45,749 --> 00:04:44,560  
on behalf of thousands of proud

59  
00:04:46,710 --> 00:04:45,759  
americans who've been part of her

60  
00:04:48,070 --> 00:04:46,720  
journey

61  
00:04:51,350 --> 00:04:48,080  
good luck godspeed we'll see you back

62  
00:04:55,990 --> 00:04:53,749  
thank you sir uh on this final flight of

63  
00:04:58,150 --> 00:04:56,000

space shuttle endeavor we want to thank

64

00:05:00,070 --> 00:04:58,160

all the tens of thousands of dedicated

65

00:05:02,310 --> 00:05:00,080

employees that have put their hands

66

00:05:04,310 --> 00:05:02,320

on this incredible ship and dedicated

67

00:05:05,990 --> 00:05:04,320

their life to the space shuttle program

68

00:05:07,830 --> 00:05:06,000

as americans we endeavor to build a

69

00:05:10,390 --> 00:05:07,840

better life than the generation before

70

00:05:12,629 --> 00:05:10,400

and we endeavor to be a united nation

71

00:05:14,390 --> 00:05:12,639

in these efforts we are often tested

72

00:05:16,469 --> 00:05:14,400

this mission represents the power of

73

00:05:18,230 --> 00:05:16,479

teamwork commitment and exploration it

74

00:05:20,710 --> 00:05:18,240

is in the dna of our great country to

75

00:05:23,110 --> 00:05:20,720

reach for the stars and explore we must

76

00:05:25,749 --> 00:05:23,120

not stop to all the millions watching

77

00:05:27,990 --> 00:05:25,759

today including our spouses children

78

00:05:30,629 --> 00:05:28,000

family and friends we thank you for your

79

00:05:35,590 --> 00:05:34,070

outstanding words mark thank you sir

80

00:05:36,870 --> 00:05:35,600

and to do that you are clear to launch

81

00:06:18,469 --> 00:05:36,880

endeavor

82

00:06:23,590 --> 00:06:21,029

go we are go for launch milo has their

83

00:06:24,870 --> 00:06:23,600

backup uhf antenna stuck so we're down

84

00:06:26,550 --> 00:06:24,880

redundancy

85

00:06:31,029 --> 00:06:26,560

we still need the rules we'll go for

86

00:06:31,039 --> 00:06:39,830

copy and concur

87

00:06:43,670 --> 00:06:41,749

the countdown clock will resume on my

88

00:06:44,710 --> 00:06:43,680



mark

89

00:06:45,670 --> 00:06:44,720

three

90

00:06:46,629 --> 00:06:45,680

two

91

00:06:54,309 --> 00:06:46,639

one

92

00:07:09,589 --> 00:06:56,230

bus is connected to fuel cell okay copy

93

00:07:13,670 --> 00:07:11,670

this is both a sad and proud moment for

94

00:07:15,510 --> 00:07:13,680

your launch team and for america but

95

00:07:17,749 --> 00:07:15,520

your legacy will live on

96

00:07:19,909 --> 00:07:17,759

mission success with ams a truly

97

00:07:24,629 --> 00:07:19,919

international effort godspeed and see

98

00:07:24,639 --> 00:07:29,430

thanks for the

99

00:07:32,950 --> 00:07:31,589

and word otc starts your display

100

00:07:35,029 --> 00:07:32,960

recorders please

101  
00:07:42,070 --> 00:07:35,039  
present work

102  
00:07:42,080 --> 00:07:57,350  
eclt

103  
00:08:01,510 --> 00:07:59,270  
start

104  
00:08:17,589 --> 00:08:01,520  
plt that should work

105  
00:08:21,029 --> 00:08:19,110  
play booster lock stream back start on

106  
00:08:22,790 --> 00:08:21,039  
time copy on time

107  
00:08:38,829 --> 00:08:22,800  
spidey comm heater reconfig complete

108  
00:08:38,839 --> 00:08:54,710  
otc needed a pretty good apu

109  
00:09:20,150 --> 00:08:57,430  
plt otc clear caution and warning memory

110  
00:09:20,160 --> 00:09:32,630  
initiate o2

111  
00:09:32,640 --> 00:09:37,910  
flow

112  
00:09:37,920 --> 00:09:49,430  
one minute 30 seconds

113  
00:09:58,389 --> 00:09:51,269

play booster three engines ready copy

114

00:09:58,399 --> 00:10:03,269

cls go for auto sequence start

115

00:10:03,279 --> 00:10:08,310

25

116

00:10:08,320 --> 00:10:13,190

20

117

00:10:13,200 --> 00:10:16,389

15.

118

00:10:43,509 --> 00:10:19,110

events open happy 10.

119

00:10:43,519 --> 00:11:16,150

good roll

120

00:11:16,160 --> 00:11:38,870

372 copy in the bucket

121

00:11:38,880 --> 00:11:49,509

copy

122

00:11:49,519 --> 00:11:57,190

103 converge happy 103.

123

00:11:59,670 --> 00:11:58,710

prop how did the left and right ohms

124

00:12:06,870 --> 00:11:59,680

look

125

00:12:13,990 --> 00:12:09,350

booster flight how do the main engines

126  
00:12:19,269 --> 00:12:15,269  
back on myla

127  
00:12:19,279 --> 00:13:05,990  
alright

128  
00:13:13,670 --> 00:13:08,310  
fly fighter go small thrust update plus

129  
00:13:28,550 --> 00:13:15,269  
flight engines are all looking good okay

130  
00:14:03,430 --> 00:13:31,350  
negative return

131  
00:14:10,230 --> 00:14:05,910  
press ato

132  
00:14:10,240 --> 00:14:39,269  
roger

133  
00:14:39,279 --> 00:14:42,710  
singles and up three

134  
00:14:42,720 --> 00:15:11,269  
endeavor single engine ops three

135  
00:15:11,279 --> 00:15:18,069  
104.

136  
00:15:22,470 --> 00:15:19,430  
booster are you seeing something on the

137  
00:15:27,030 --> 00:15:25,030  
in flight we lost the lpft discharge

138  
00:15:27,829 --> 00:15:27,040

pressure bravo on the center there's no

139

00:15:31,670 --> 00:15:27,839

uh

140

00:15:34,150 --> 00:15:32,629

copy

141

00:15:36,470 --> 00:15:34,160

and nominal shutdown plan flight almost

142

00:15:39,670 --> 00:15:36,480

shut down plus x and pitch pop

143

00:15:45,110 --> 00:15:42,470

endeavor for box your shutdown plan is

144

00:15:52,470 --> 00:15:47,910

copy shutdown plan is nominal

145

00:16:03,509 --> 00:15:52,480

for mark your go the plus x go the pitch

146

00:16:03,519 --> 00:16:08,870

endeavor single engine press 104.

147

00:16:08,880 --> 00:16:14,230

single engine press 104

148

00:16:14,240 --> 00:16:33,269

30 seconds to tdrs

149

00:16:33,279 --> 00:16:58,470

three g sort of lamps reflect copy

150

00:16:58,480 --> 00:17:13,750

23k

151  
00:17:13,760 --> 00:17:39,029  
fine count copy fine count

152  
00:17:46,950 --> 00:17:42,789  
folks we're in the post homes one pages

153  
00:17:46,960 --> 00:17:54,950  
copy step

154  
00:18:00,230 --> 00:17:57,510  
ecom how is cooling

155  
00:18:02,230 --> 00:18:00,240  
good vehicle cooling flight copy

156  
00:18:10,470 --> 00:18:02,240  
endeavor houston we did see a nominal

157  
00:18:16,310 --> 00:18:12,470  
and prop that was good plus x good plus

158  
00:18:19,350 --> 00:18:17,510  
okay folks we're going to be watching

159  
00:18:22,230 --> 00:18:19,360  
the crew go through a a pitch up

160  
00:18:33,270 --> 00:18:22,240  
maneuver and uh booster when you see the

161  
00:18:37,430 --> 00:18:35,669  
buddy do you have a tig for ohm's two

162  
00:18:39,270 --> 00:18:37,440  
i can't see it being anything but normal

163  
00:18:41,830 --> 00:18:39,280

flight we're looking at 37 minutes

164

00:18:45,110 --> 00:18:41,840

preliminary 37 what comes up with their

165

00:18:50,630 --> 00:18:45,120

data should be fine okay copy