



1

00:00:00,830 --> 00:00:02,890

ULA Launch Director: Pneumatics? Controller: Go ULA Launch Director: LO2? Controller: Go

2

00:00:02,890 --> 00:00:06,050

ULA Launch Director: Water? Controller: Go ULA Launch Director: Centaur systems, propulsion? Controller: G

3

00:00:06,050 --> 00:00:08,490

ULA Launch Director: Pneumatics? Controller: Go ULA Launch Director: LO2? Controller: Go

4

00:00:08,490 --> 00:00:11,030

ULA Launch Director: LH2? Controller: Go ULA Launch Director: Haz gas? Controller: Go

5

00:00:11,030 --> 00:00:13,930

ULA Launch Director: Electrical systems, airborne? Controller: Go ULA Launch Director: Ground? Controller: G

6

00:00:13,930 --> 00:00:16,400

ULA Launch Director: Facility? Controller: Go ULA Launch Director: RFFTS? Controller: Go

7

00:00:16,400 --> 00:00:19,280

ULA Launch Director: Flight control? Controller: Go ULA Launch Director: Instrumentation? Controller: Go

8

00:00:19,280 --> 00:00:21,030

ULA Launch Director: Comm? Controller: Go ULA Launch Director: Timer? Controller: Go

9

00:00:21,030 --> 00:00:23,380

ULA Launch Director: GCQ? Controller: Go ULA Launch Director: Umbilicals? Controller: Go

10

00:00:23,380 --> 00:00:25,970

ULA Launch Director: UCS? Controller: Go ULA Launch Director: Red line monitor? Controller: Go

11

00:00:25,970 --> 00:00:28,800

ULA Launch Director: Quality? Controller: Go ULA Launch Director: OSM? Controller: Go

12

00:00:28,800 --> 00:00:30,510

ULA Launch Director: ULA safety officer? Controller: Go

13

00:00:30,510 --> 00:00:32,940

ULA Launch Director: Range weather and clear to proceed? Controller: Go

14

00:00:32,940 --> 00:00:34,050

ULA Launch Director: Launch Director

15

00:00:34,050 --> 00:00:36,590

NASA Launch Manager Tim Dunn (NLM): LC, you have permission to launch.

16

00:00:36,590 --> 00:00:39,250

ULA Launch Conductor: Proceeding with the count.

17

00:00:39,250 --> 00:00:46,560

ULA Launch Conductor: T-0 is planned for 08(colon) 05 (zulu). Set count to start at 08(colon) 01 (zulu).

18

00:00:46,560 --> 00:00:49,140

Tracy Young/NASA Launch Commentator: At T-4 minutes and holding, as we just