



Space Launch Complex-41  
Cape Canaveral Air Force Station, Fla.

1

00:00:00,000 --> 00:00:03,050

Launch Commentator Mike Curie: From Cape Canaveral Air Force Station in Florida,

2

00:00:03,050 --> 00:00:08,210

you are watching live coverage of the launch of the Orbital ATK Commercial Resupply

3

00:00:08,210 --> 00:00:14,120

Services Mission, or CRS-4, to the International Space Station.

4

00:00:14,120 --> 00:00:20,710

This is Atlas Launch Control. We are at T-one hour, 10 minutes and counting.

5

00:00:20,710 --> 00:00:27,869

Liftoff is targeted for the opening of a 30 minute launch window at 5:55:45 p.m. Eastern

6

00:00:27,869 --> 00:00:30,490

Standard Time.

7

00:00:30,490 --> 00:00:35,200

There are five discreet instantaneous launch opportunities. One at the very opening of

8

00:00:35,200 --> 00:00:40,399

the window, and then four others evenly spaced at 7-and-a-half-minute increments

9

00:00:40,399 --> 00:00:44,829

within that 30 minute launch window, should they be needed.

10

00:00:44,829 --> 00:00:49,879

At the time of launch today, the space station will be about 252 miles above Earth over

11

00:00:49,879 --> 00:00:55,789

the northern Atlantic Ocean west of Ireland.

And shortly after launch, the Atlas V will

12

00:00:55,789 --> 00:01:02,020

steer to an inclination of 51.6 degrees to the Earth's equator, matching the orbit of

13

00:01:02,020 --> 00:01:03,020

the

14

00:01:03,020 --> 00:01:04,180

space station.

15

00:01:04,180 --> 00:01:10,560

When the Centaur upper stage is separated, Cygnus will be in its initial orbit of 124.1

16

00:01:10,560 --> 00:01:17,659

nautical miles perigee by 124.2 nautical miles apogee.

17

00:01:17,659 --> 00:01:24,259

The story of the day here today in the Space Coast in Florida has been the weather.

18

00:01:24,259 --> 00:01:30,900

The weather forecast at this time is calling for a 70 percent probability of violating

19

00:01:30,900 --> 00:01:38,820

launch constraints for the thick cloud layer rule, cumulus cloud rule and disturbed

20

00:01:38,820 --> 00:01:44,610

weather.

21

00:01:44,610 --> 00:01:51,590

Earlier weather forecasts by the 45th Weather Squadron forecaster Clay Finn prompted

22  
00:01:51,590 --> 00:01:57,229  
a discussion during the T-2 minute hold that  
extended the hold for an additional 15

23  
00:01:57,229 --> 00:02:03,820  
minutes while managers from United Launch  
Alliance and Orbital ATK and NASA

24  
00:02:03,820 --> 00:02:11,099  
determined whether they wanted to give a "go"  
to cryogenic tanking today.

25  
00:02:11,099 --> 00:02:16,510  
They ultimately gave a go. But again, the  
hold extended an additional 15 minutes.

26  
00:02:16,510 --> 00:02:24,420  
That 15 minutes will be traded out for the  
planned 30-minute hold at T-4 minutes.

27  
00:02:24,420 --> 00:02:30,090  
So, when we get to T-4 minutes we will have  
a 15-minute hold. Again, still planning to