Launch controller: ROC, report range status.

Launch controller: Range green.

Launch commentator: T-minus five, four, three, two, one.

Go for main engine start.

Zero and liftoff.

2 weeks to T-0.

Today is another huge milestone for NOAA’s GOES-S mission.

"So today we start something called encapsulation.

By encapsulation we actually put a container around the satellite it’s called a payload.

That payload fairing is going to protect the satellite for the first three and a half minutes of mission.

That sounds like a very short period of time, but in fact, you know that's when we would
have the maximum aerodynamic and acoustic loads on the satellite, so we're trying to

protect the satellite.

Right now we really have tested everything we need to do to make sure this satellite

is ready for launch.

Next time we'll see this satellite is on orbit."

Shooting off the launch pad like a bullet, this vehicle will rocket past the speed of

sound in just over thirty seconds.

If not protected, the Earth's atmosphere will rip GOES-S to pieces.

But for a satellite - designed to only live in the vacuum of space - life on Earth can

be just as dangerous.

Any exposure to dust or moisture could contaminate the satellite and destroy the mission.

That's why this fairing is more than just a suit of armor.
It's also a portable clean room.

00:01:28,430 --> 00:01:33,040
With encapsulation complete, it's time to call in the KAMAG.

00:01:33,200 --> 00:01:40,040
This 72-wheel transport vehicle has what it takes to get this massive payload to the pad.

00:01:40,049 --> 00:01:46,539
"Spacecraft hoist and mate to the launch vehicle today is a huge milestone for the whole operation.

00:01:46,540 --> 00:01:49,270
And this is the biggest integrated operation that we've had so far.

00:01:49,269 --> 00:01:55,199
It goes all day and all night from transport and then hoist and mate, and it will go into

00:01:55,200 --> 00:01:57,950
the evening tonight as they finish close-outs."

00:01:57,950 --> 00:02:03,490
After working through the night, LSP and ULA are almost there.

00:02:03,489 --> 00:02:06,478
Just 150 feet to go... Straight up.

00:02:06,478 --> 00:02:14,068
"Obstacles, we do have obstacles on the decks, on the KAMAG, so watch your step, walking area, trip hazards, and then remember about your hard hats, chin straps.

00:02:14,068 --> 00:02:19,479
Any questions?

00:02:19,479 --> 00:02:20,629
Alright, let's go do this."
"There's a lot of moving parts involved with processing a spacecraft, processing a rocket, and bringing them together for a launch.

There are a lot of people involved and there are a lot of moving parts.

There are a lot of hard time lines that we have to meet, and deadlines that we have to meet, and everybody works as hard as they can to meet those deadlines, sometimes you have to work around the clock to meet those."

We've reached a critical point on the road to T-Zero.

GOES-S is now mated to the Atlas V.

"We're working for several years integrating this thing, and we've completed that now.

We've got the satellite on top and we're ready to go."

With all major milestones complete, this rocket is ready to roll.