

## Start the Launch Goal Writeup

**Actor:** Flight Control Director

At the end of Countdown, Flight Controller Starts the Launch. The System responds by igniting the engines.

1. Flight Controller Starts the Launch
2. System ignites the Engines and reports ignition
3. System reports back Initial Launch Data (Telemetry)
4. System releases Vehicle once engines are at full power and reporting consistent thrust

What happens if the System reports an issue with the rocket?

The Flight Controller (Flight Control Director) holds the countdown, with the option to scrub the Launch. If the Launch is Scrubbed, another attempt at a Launch is determined (outside the scope of this System). If the Launch is on hold, the Flight Controller resumes the countdown once the hold issues are fixed.

Can the Countdown be automated?

Yes. The Flight Controller monitors the Countdown to ensure the viability and safety of the launch.

Is the Flight Controller able to view all the viable mission data?

Yes. The Flight Controller chooses the mission data to focus. All the Mission data is available, the Flight Controller chooses what mission data to focus.

Can the Flight Director view all the Mission Data at once?

Yes—all the Mission Data available.

In addition, the Flight Director can select Mission Data to focus their attention.

Can the whole Launch Startup Sequence be automated?

Yes: Including the decision to start. Up until the ignition, the Flight Controller ultimately has the authority to abort/delay the Launch (and thus, Start of Launch) at any point.