

Monitor Pre-launch Activities

Main Success Scenario

1. The Flight Controller Starts the Pre-Launch Sequence
2. The System requests the Countdown Time
3. The Flight Controller enters the Countdown Time
4. System displays the Countdown Time
5. Flight Controller Starts the Countdown
6. System continuously displays the Countdown Time
7. System periodically monitors Pre-Launch Data
8. System returns Pre-Launch Data to the Flight Controller
9. System alerts the Flight Controller when the countdown reaches 0
10. Flight Controller Initiates the Launch Sequence

Alternate Scenarios

- 7a. If the System detects an anomaly in the Pre-Launch Data, then the System alerts the Flight Controller of the anomaly
- 8a. If the System alerts the Flight Controller of a Pre-Launch anomaly (see *Alternative Scenario 7a.*) then the Flight Controller can chose to hold the Countdown
- 8b. If there is a hold in the Countdown and the anomaly is resolved, then the Flight Controller can chose to resume the Countdown, the Countdown continues at the time stopped
- 8c. If there is a hold in the Countdown, then the Flight Controller can chose to abort the launch the System indicates an aborted launch
- 7b. 8d. If the System is automated at countdown, and the System detects an anomaly, then the System can hold the Countdown of which the Flight Controller can override
- 9a. 10a. If the System is automated at countdown then the System will initiate the Launch Sequence (per the Flight Controller's setting)