Use Case 1: Monitor Pre-Launch Activities

Scope: Launch Simulator Level: Flight Director Goal Primary Actor: Flight Director

Secondary Actor: Astronaut, Engineer/Technician

Related Use Cases: None Stakeholders & Interrests:

- Flight Controller: wants to monitor the Pre-Launch Data
- Flight Controller: wants to monitor the Countdown Time
- Flight Controller: wants to asses the validity of the Countdown
  - Continue the Countdown
  - Hold the Countdown
  - Abort the Countdown
- Engineer/Technician: wants to montior selected Pre-Launch data to ensure the System is working properly and advise the Flight Controller
- Astronaut: wants to monitor Countdown Time
- Astronaut: wants to monitor Pre-Launch Data for System awareness

**Pre-Conditions:** All the parts of the System are ready to begin the Countdown, the Launch Simulator is running

**Post-Conditions:** The Countdown is at zero, the System transitioned from Pre-Launch to Initiate Launch

## Main Success Scenario:

Flight Director	System
1. Start the Pre-Launch Sequence	
	2. Request Countdown Time Entry
3. Enters the Countdown Time	
	4. Returns Countdown Time
5. Starts the Countdown	
	6. Displays Countdown Time to all
	actors
	7. Repeats 6 for the entire countdown
	8. Monitors Pre-Launch Data
	9. Returns Pre-Launch Data to all the
	actors
	10. Repeats 7,8 for the entire Count-
	down
	11. Alerts actors when Countdown
	reaches zero
12. Initiate Launch Sequence	
	13. Transitions out of Pre-Launch
	into Intiate Launch
	14. Informs the actors of the transi-
	tion

## **Alternative Flows:**

- \*.a At anytime, the Flight Director can hold the Countdown if conditions arise that warant that.
- \*.b At anytime, if the Countdown is on hold, the Filight Director can resume the Countdown if the State of the System warants such a transition; the Countdown continues at the time stopped