

### **Use Case 0: Initialize Launch Data**

**Scope:** Launch Simulator

**Level:** Flight Controller Goal

**Primary Actor:** Flight Controller

**Secondary Actor:** None

**Related Use Cases:** None

**Stakeholders & Interests:**

- Flight Controller: wants to initialize the Launch Sequence with the Appropriate Data
  - Rocket
  - Launching Platform
  - Capsule

**Pre-Conditions:** System is started: ready to accept initialization data

**Post-Conditions:** Initialization data entered by the Flight Controller—including Threshold data as needed

#### **Flow of Events:**

<b>Flight Controller</b>	<b>System</b>
1. Enters the initial Rocket Data	
2. For each Stage, enters the initial & threshold Stage Data	
	3. Saves the Rocket/Stage Data
	4. Displays Rocket/Stage Data
5. Enters the Launching Platform Data	
6. For each Launching Platform Support, enters the initial support data	
	7. For each Support, calculates the Support Threshold Data based on the initial Support input data
	8. Saves the Launching Platform Support & Threshold Data
	9. Saves the Input & Calculated Threshold Data for each Support
	10. Displays the Platform Support Data
	11. Displays the Individual Support Data for every Support

#### **Alternative Flows:**

- \*a. If at any time, errant data is entered into the System, then the System Alerts the Actors. The System will display default data instead of errant data. The Flight Director has the choice to change the errant input data.

\*b. If at any time, the System is unable to save the data, then the System alerts the Actors to the Issue.

**Special Requirements:**

- None

**Technology & Variations List:**

1c,2c,5c,6c There are many ways to input the Initialized data. How the Initialized data is entered determines the input protocol and how errors are reported.

1d,2d,5d,6d Based on the components of the System (Rocket, Lauching Mechanism, Capsule), the initialized input/threshold and caculated threshold data will vary.

**Open Issues**

- To remove the ambiguity, consider using a Text file to input the initialized and threshold data? The System would parse the text file for the initialized/threshold data