

# Experimentation of Control Methods Report

## **Abstract**

The LRE can be throttled by controlling the propellant combustion rate (usually measured in kg/s or lb/s). By changing the propellant valves open margin this causes a reduction in the mass flow going into the main combustion chamber.

## **Method Overview**

- Test Data Generator
- Open Loop Non-Feedback
- Closed Loop Feedback

## **TEST DATA GENERATOR**

### Ordered Sequence

Generated sequence will follow pattern. Numbers will be generated at random within a range (ex:5-7). Each rand number from RANGE\_LOW will be greater than last while  $\leq$  RANGE\_HIGH

### Unordered Sequence

Generated sequence will follow not follow any pattern. Numbers will be generated at random within a range (ex:5-7).