

## Atm Impulse Procedure

Version 1.0, <Date 2024-05-20>

#### SPACE Lab

Date:		_ / /		
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Part Number:			_	
Serial Number:				
Initials:	,	,	,	

#### **Test Objective**

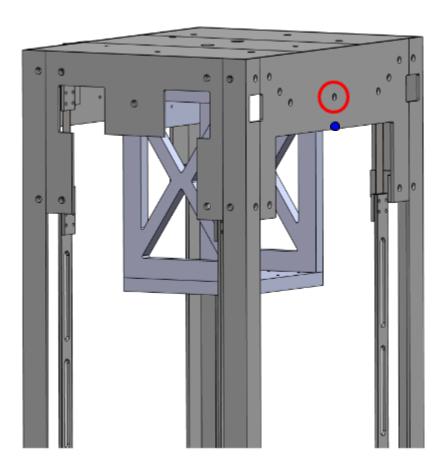
This procedure is to set up the calibration process for the impulse test of the SPACE Lab Capstone pulsed plasma test stand at atmospheric pressure.

### **Equipment Required**

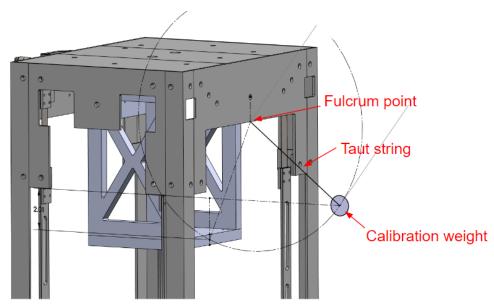
Qty	Description	Specs/Calibration	Check
1	String	1 spool	
1	Calibration weights	Set of calibration weights	
1	Duct tape	Single piece of duct tape	

# Atmosphere Impulse Application Procedure (~1 hour)

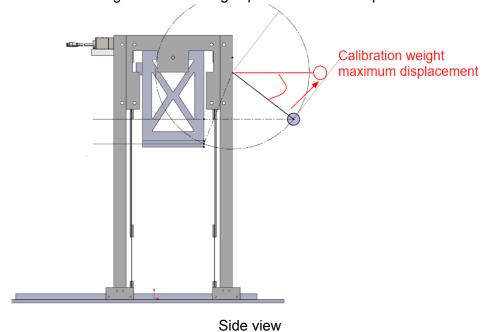
1. At the circled hole on the assembly, screw on a ¼" bolt, leaving ½" of the bolt shaft exposed.



- 2. Using a string, tie a knot on the exposed bolt threads, leaving an ample length slack.
- 3. Tape down the length of string to the face of the frame, such that the swinging motion of the string is at the bottom of the face (blue dot).
- 4. Tie the calibration weight to the other end of the string, making sure to have a sufficient string length between the edge of the frame and weight such that the weight collides with the pendulum.



- 5. Immediately prior to the impulse test, raise the calibration weight, keeping the string taut.
- 6. Hold calibration weight until the string is parallel to the floor plane.



- 7. Release the weight, and ensure that the scope recorded the resultant oscillation of the test stand pendulum.
- 8. Save raw voltage data from the scope to a flash drive.
- 9. Repeat steps 5-8 for all trials.