

<b>Team #:</b>	P18371	<b>Team Name:</b>	Spring Brakers						
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<b>Revision #:</b>	1								
ID	Category	Risk Item	Effect	Cause	Likelihood	Severity	Importance	Action to Minimize Risk	Owner
1	Technical	Hydraulic Leakage	Innaccurate readings and damage to equipment, overall failure.	Insufficient engineering research. Insufficient materials and construction.	9	9	81	Dedicated research and testing.	TBD
2	Technical	Piston Disalignment	Can cause damage to internal components.	Insufficient tolerance and accuracy.	3	3	9	Multiple checks on dimensions and measurements.	TBD
3	Resource	Lack of pressure-grade materials and construction	Unable to safely assume prototype will hold throughout target pressures.	Not having the ability to obtain resources.	1	3	3	Meggitt can give us contacts for suppliers	Mike/Tony
4	Resource	Lack of hydraulic testing facility	Unable to test protoype.	Not having access to hydraulic facility	1	9	9	Brinkman Lab is setting up a testing area for us	TBD
5	Resource	Sunk budget if protoype leaks	Lost budget and delay of continued work.	Insufficient research and precaution.	3	3	9	Dedicated research and testing.	TBD
6	Resource	3 months away from project	Loss of team member focus.	MSD running Spring-Fall.	9	1	9	Communicate during the summer	Team
7	Safety	Pressure Vessel exploding	High risk physical harm to all stakeholders.	Insufficient research and testing at varying pressures. Insufficient construction and materials.	3	9	27	Dedicated research and testing.	TBD
8	Safety	Hydraulic fluid flammability	High pressure and temperature may lead to fire hazard.	Choice of hydraulic fluid to be used.	1	9	9	Research on fluid hazards.	TBD
9	Safety	Corrosion of structure materials	Lower structural integrity.	Choice of construction materials to be used.	1	3	3	Research on material hazards.	TBD
10	Safety	Simulator unstable and moves during testing	Operator and other stakeholders may be physically harmed by simulator.	Braking system of simulator (or other method of remaining stationary) is not sufficient against the force exerted by simulator during testing.	3	3	9	Create brake design for the table/cart/etc the simulator is mounted on.	TBD
11	Environmental	Disposal of hydraulic fluid	Toxic leakage to environment and water supply.	Improper disposal.	1	9	9	Seek proper disposal locations and methods.	TBD
12	Environmental	Disposal of materilals - toxicity	Toxic leakage to environment and water supply.	Improper disposal.	1	9	9	Seek proper disposal locations and methods.	TBD