

Revision 1:

ID	Risk Item	Effect	Cause	Likelihood	Severity	Importance	Action to Minimize Risk	Owner
	<i>Describe the risk briefly</i>	<i>What is the effect on any or all of the project deliverables if the cause actually happens?</i>	<i>What are the possible cause(s) of this risk?</i>			L*S	<i>What action(s) will you take (and by when) to prevent, reduce the impact of, or transfer the risk of this occurring?</i>	<i>Who is responsible for following through on mitigation?</i>
1	Servo Failure	Hydrofoil doesn't flip, loss of control of the system	Faulty signal, not powered, mechanical failure	3	3	9	Dry Test, low angle test	Joe
2	Base Failure: Stakes pull out	The whole system goes into the river	The stakes don't hold the weight of the base, the base wiggles	2	3	6	Observe ground conditions, secondary method of securing base	Don
3	Hydrofoil Failure	hydrofoil breaks, system stops working	Drag, debris	2	2	4	Know the profile of the river, have the hydrofoil break off	Matt
4	Interference fit fails	boom pulled or twist out of position, possibly ends in water	poor material preparation, insufficient design	1	3	3	independent analysis methods, tether each component	Chris
5	Boom-Base Connection, pin fails or comes out	boom and hydrofoil pulled into river	under-deisgned or poor assembly	1	3	3	independent analysis methods, installation procedure documentation, tether each component	Chris
6	Boom Failure	Total system failure	Poor design, poor manufacture, inaccurate force calculations	1	3	3	Review the design, parallel analysis methods, have someone else check it	Chris
7	Dump Load System Failure	we don't generate power	poor component choice, faulty components	1	1	1	properly size components, have spares	Geoff