Rationale and Feasibility Checklist   Template #3

Concept Review	Reference(s) to supporting documentation
Have similar products (or processes) been identified?	
Have similar products (or processes) been compared and analyzed for performance, reliability, cost?	
Does the proposed concept achieve the functional requirements and constraints?	
Has the patent search been completed? Literature review? Are we potentially violating other patents, trademarks, copyrights?	

Feasibility Review	Reference(s) to supporting documentation
Can the project be completed on schedule?	
Are there issues that may impede the schedule? If so, provide a risk mitigation plan.	
Are the bill of materials and parts lists completed?	
Are there any long lead-time parts or materials to order?	
Has the project budget been completed and approved?	
Does the team have the required technical expertise to complete the project?	
Is outside support required for fabricating the prototype? Are there any special processes required? If so, who will provide support? Identify cost and availability.	
Is outside support required for testing the prototype? Are there any special test procedures or equipment required? If so, who will provide support? Identify cost and availability.	
Have engineering analyses been completed to ensure product performance? Consider mechanical stability, strength, material choice, packaging, tolerances, response to changes in environmental temperature, humidity, chemicals, vibration.	
Are there safety risks that may arise? If so, how are these being addressed?	
Have all requirements for external agency compliance been considered?	

Reliability Review	Reference(s) to supporting documentation
Have failure modes of all mechanical parts and other parts been determined? Consider worst case environment, worst case use.	
Have parts with high failure rates and suppliers with unreliable processes been screened or rejected?	
If appropriate, is there a preliminary plan for life cycle testing?	

	Name	Signature	Date of Review
Team Coordinator:			
Client:			
Faculty Coach:			