

Team #:	P17027	Team Name:	Starfish Gripper
Date:	4/12/2017 18:05	Document Owner:	Matthew Landolfa
Revision #:	2		

Subsystem/ Function/ Feature Name:	Life Cycle Testing	ER5 Test Plan
Date of Test:		
Performed By:		
Tested By:		

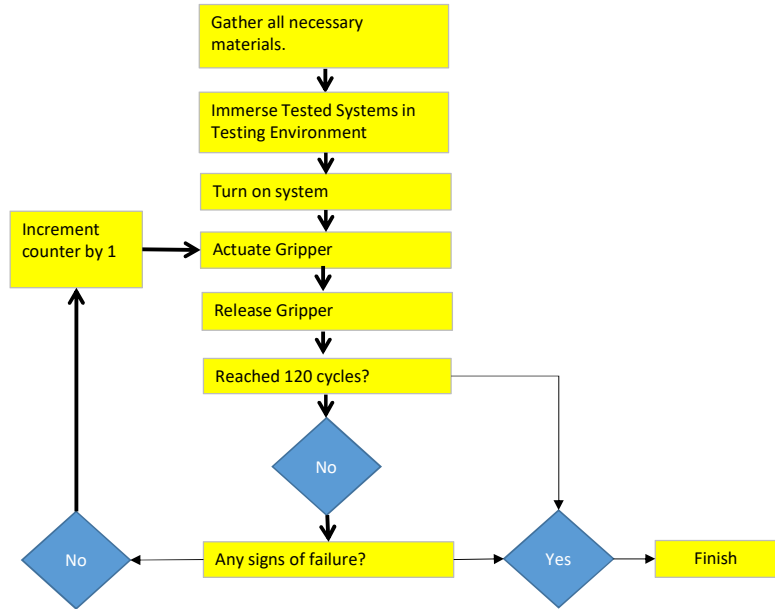
Concluded Condition of meeting Engineering Specification: **0- Meets Marginal Specifications**

I. TESTING SPECIFICATION								
Specification Number	Importance	Source	Function	Specification (Metric)	Unit of Measure	Marginal Value	Ideal Value	Comments/Status
ER5	1	CR7	Reliable Operation	Cycles to Failure	[cycles]	120	1000	

II. EQUIPMENT REQUIRED	
Specification Number	Equipment or Instrumentation required
ER5	Fully Charged Battery, Integrated Systems, Liquid-Filled Testing Tank, Counter

III. DATA COLLECTION STRATEGY	
Specification Number	Data acquisition strategy
ER5	The goal of this test is to determine if the soft robotic gripping device is able to achieve the engineering requirement for number of cycles. Robot will be submerged in testing environment. Gripper will be actuated and released repeatedly, and test operator will record number of cycles achieved until 120 cycles are reached, or some part of the system fails.

III. TESTING FLOWCHART



IV. RAW DATA ACQUISITION

Life-Cycle Testing:	Cycles Completed	Cause of Failure (if applicable)	Comments

V. RESULTS

VI. CONCLUSION

