EAS 199B: Checklist for salinity control

Date:

Group members: Sub-project Leader

_____

_____

_____

_____

Your score	Max score	
_____	10	Support documents are provided: Updated calibration plots with equations; Salinity control parameters (ΔUCL, ΔLCL, σ, deadtime, G, F), Arduino code. Specification for the support document is provided separately
_____	5	Circuit board, LCD panel and Arduino are mounted on acrylic panel w/ standoffs
_____	5	Relay circuits with transistors appear to be correct
_____	5	LCD panel meets specification from the "Preparation for Salinity Control" document
_____	5	Water circulates when pump is turned on
_____	15	System responds to disturbance caused by addition of DI water: Salinity value on LCD changes, salty valve opens, system returns to equilibrium
_____	15	System responds to disturbance caused by addition of salty water: Salinity value on LCD changes, DI valve opens, system returns to equilibrium
_____	15	System controls salinity between LCL and UCL
	75	Total

Sub-project Leader

_____	5	Clear and responsive communication with instructor
_____	5	System is organized and ready for in-class verification
_____	5	All team members are knowledgable about system operation
	15	