

ME 121: Checklist for salinity and temperature control

Date:

Group members:

Sub-project Leader

Your score	Max score	
_____	10	Plot(s) showing measurement of constant K for the thermal response of the system
_____	10	Value of K is reasonable
_____	10	Values of UCL and LCL are reasonable
_____	10	LCD panel displays heating status and water temperature, in addition to the salinity control status
_____	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 responds to disturbance caused by addition of warm or cold water: Heater turns on as needed; system returns to equilibrium
_____	85	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 knowledgeable about system operation

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