Notes regarding battery cycler operations and requirements for software and hardware:

* **All profile values will be in engineering units:**

**-This simplifies the task of the software and hardware**

**-running profiles that are scaled to battery size require you writing the profile for that cell yourself or using an excel file or script that will scale the relative profile to the specific cell. This is NOT a high priority as it does not affect functionality in any way.**

* **Post processing of all data is handled external to the scheduler:**

**-Again to elevate the load on the scheduling PC**

Required modes of operation:

* CC (constant current)
* CV(constant voltage)
* CW(constant power)

*Note: use positive values of power and current to indicate load, negative to indicate charge, as in manual.*

*Note: profiles need to define safety conditions? Conditional faults? (can be time, or any other vaule)*

List of initially planned profiles “tests”:

* Charge: -> CC, current limit -> constant voltage, current limit (charges the batt per manuf specs)
* Static capacity test: Charge -> Constant current, voltage limit (determines the capacity of cell)

*Need to report voltage, current, time, (post process integrate to get power)*

* Constant power discharge test: Constant power, voltage limit (determines the capacity of cell)

Need to report voltage, current, time*, (post process integrate to get power)*

* *HPPC test:*