Automatic Generation Control Minutes 2/23/2016

- Master Controller
 - Continue research
 - AGC
 - Governor Control
 - Feedback
 - Articles:
 - AGC of an Interconnected Hydrothermal Power System (also includes hydro simulation)
 - State Space Representation
 - Matlab simulation
 - 422- check in text (Thomas Overbye) to model system as in in article
 - A Review on Hydropower Plant Models and Control
 - Hydro plant Models
 - Governor
 - Plant Controllers
 - Go to work cited to review related articles
 - Implement PID controllers into system (good place to start), although there could be other programs to be used as well.
 - The basic law of control is the control will never be any better than the knowledge of your system.
- Interview Questions
 - Sent to Avista
- Due Dates
 - Logbooks Friday 2/26
 - Team Logbook Friday 2/26
- Other Information:
 - March 8th tour of hydropower dam talk to Pavan. Snapshot day will need to be rescheduled
 - Talk to Pavan regarding the network between the generators as he has already modeled the entire system and the generators interconnection is a subset of this.
 - We're still waiting on a response from Avista for our project proposal and interview questions
- To do:
 - Research about if the hospital's backup generators can sync to the grid
 - o Develop a control loop of the system and model it with both generators
 - Get all the information we can from Avista (May need to get a background check)

- Research/questions:
 - Is it common practice in frequency generation for the generators to operate above their nominal operating speed?
 - Our system is separate from the normal NW main grid, how much above nominal rated frequency can we sync?
 - Is our system required to operate at 60 HZ? Can we operate it at a different frequency level? 30 Hz?