**Outcome:** Students will be able to Describe the components of the Boiler Feedwater system and it part of the Rankine Cycle

**Lecture:** Lecture to review:

1. Chemical Treatment
2. Feedwater Pumping a. Electric Driven Pumps b. Steam Driven Pumps
3. Feedwater Preheating
4. Feedwater Flow Control
5. Rankine Cycle Review (P&ID)

**Demo:**

Pictures and P&ID’s of the Feedwater Process of the Rankine Cycle

**Homework:**

* *Research and Draw a P&ID of a Boiler feed water system with a Feedwater Heat Exchanger installed.*
* *Do a Write up in your own words how the system you drew works*

**Documentation:**

1. Boiler feedwater Systems.pptx

**Competency Mastery -** Students will demonstrate their understanding of Boiler feedwater systems by drawing a P&ID of the systems involved along with writing up a descriptive analogy of how their P&ID or Boiler feedwater system works. Descriptive understanding-Quiz will follow in the overall Rankine cycle Quiz.