Steam Boiler System Water Mass Balance

Understanding the water mass balance in a steam boiler system can help identify where water and energy savings opportunities may exist. The water discharged from the pretreatment equipment is often overlooked in the mass balance equation.

The white box in the mass-balance diagram on the right illustrates the boundary where water both enters and leaves the overall steam boiler system.

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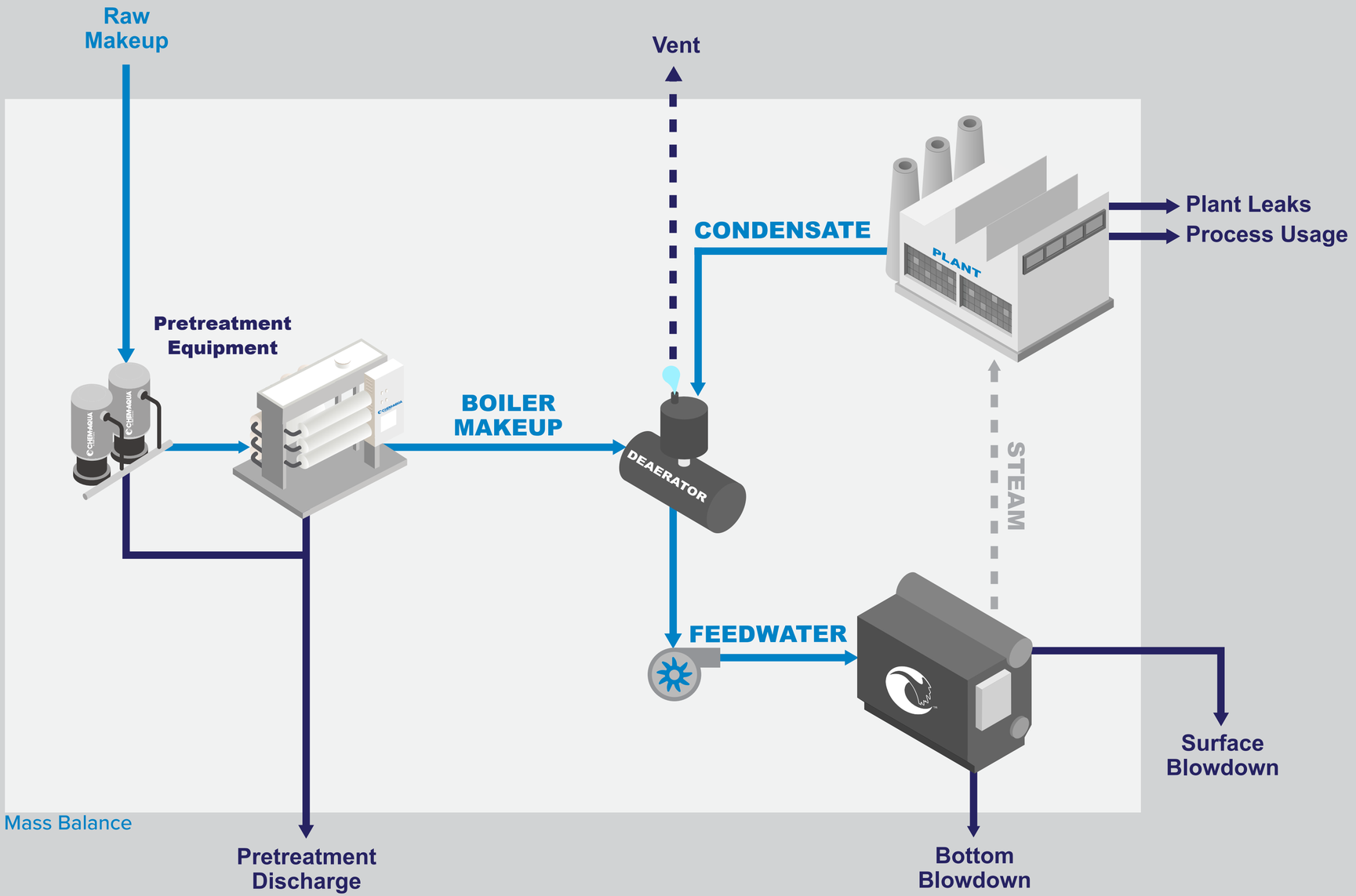
- Pretreatment Equipment Discharge
- Boiler Blowdown - Surface and Bottom
- Plant Steam and Condensate Leaks
- Steam Usage In Process
- Deaerator Venting



Mass Balance