CONDUCTIVITY CONTROLLERS

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The advantages to automatic controls are

- Consistent conductivity
- Blow down when needed
- Never over blow or under blow the boiler
- Control carryover
- Boiler gets tested every 15 minutes
- Consistent chemical results
- Increased fuel efficiency

Consistent Conductivity

- Boiler conductivity controller will test surface blow down every 15 minutes. If conductivity is below set point surface blow down valve will not open.
- If boiler conductivity is above set point surface blow down will open and blow down until limit is reached and then shut.

Blow Down When Needed

- If the steam demand is low, boiler will not blow down until an increase in demand.

- The increase in demand will cause an increase in conductivity causing the controller to trip the set pint and blow down.

Never Over Blow the Boiler

- By timed sampling of the boiler every 15 minutes you will minimize blow down.
- Minimizing blow down will help conserve water an energy.

Carryover

- By controlling the conductivity on a consistent basis you minimize or even eliminate carryover.

Consistent Testing

- With a boiler conductivity controller you can test the conductivity every 15 minutes.
- This would be difficult doing it manually.
**Chemical Results**

- By controlling conductivity you control boiler chemical levels more consistently.

**Increased Fuel Efficiency**

- By controlling the blow down you can achieve higher cycles more consistently thus, increase fuel efficiency.
- One 600 hp boiler running 100% capacity@ 20,700 pounds per hour with 70% condensate return. Going from 10 feed water cycles to 15 feed water cycles at 0.80 cents per therm is $18,000 per year in fuel saved.