



Water Chemistry Audit

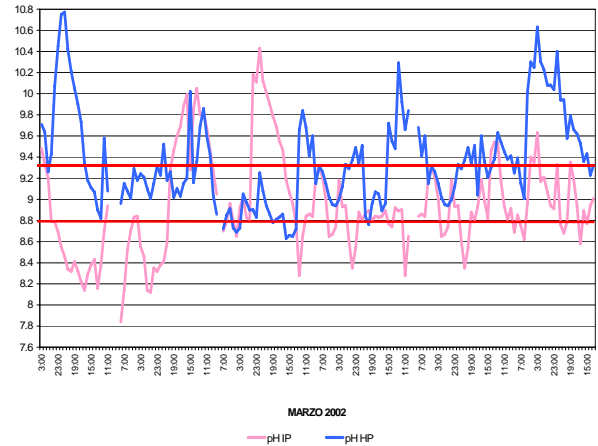
The Water Chemistry Audit is designed to evaluate current water chemistry control practice at a power plant site with a focus on the in-boiler and condensate steam/water chemistry.

The goal is to identify areas of improvement that might reduce corrosion and degradation in water- and steam-side surfaces. Tetra Engineering does not sell water treatment chemicals and therefore our recommendations are not biased to a particular commercial solution.

One of our engineers visits the site to perform a walk-down and gather information for the following activities:

- **Specification Review:** The current plant chemistry limits are reviewed as well as the water treatment programs employed. The plant practices are compared with OEM recommendations, warrantee requirements, industry norms, and Tetra experience.
- **Operating Performance:** The actual water chemistry performance, quantified from PI data or lab sample data, is compared with specification limits and water treatment vendor contractual requirements.
- **Determination of Water/Steam Quality:** An assessment is made of how plant personnel can ascertain that key water treatment parameters are within the desired limits given the existing equipment and procedures. Sampling points, sampling frequency, equipment type and calibration are reviewed.
- **Makeup Water Systems:** Makeup water quality and its impact on process water chemistry are reviewed.
- **Plant Degradation:** Past equipment failures that could be influenced by boiler water chemistry are identified.
- **Layup Procedures and Requirements.** Plant layup procedures and decision processes are reviewed.

The deliverable is a report that provides a comprehensive assessment of the state of the water chemistry program at the plant in question along with clear guidance on potential improvements.



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