



POWER PLANT CYCLE CHEMISTRY

Stress Engineering can provide steam cycle chemistry audits and training. Cycle chemistry audits include review of chemical instrumentation for on-line monitoring the condensate, feed water, boiler water and steam. Recommendations are made to optimize chemical treatment and monitoring, improving boiler water and steam chemistry to minimize feed water heater & boiler tube failures and turbine deposits and corrosion. Stress Engineering recommends designing a system to not only monitor but to report your cycle chemistry conformance to accepted industry standards. This is often accomplished with some type of a cycle chemistry performance index.

Training courses can be customized to fit the plants' particular needs. Operators need to be familiar with conditions that indicate abnormal chemical system operation. Training focuses on knowing what conditions can cause long-term damage to equipment and how to correct the abnormal conditions. Operators are required to take on these responsibilities as many plants no longer are staffed with chemical lab personnel or have ready access to chemical technical support.

BALANCE OF PLANT CHEMISTRY SUPPORT

The steam cycle chemistry is affected by balance of plant systems and can also influence these systems. Stress Engineering can provide audits of your make-up water treatment system and make improvement recommendations. In some cases it may make sense to outsource this area to companies expert at making high quality water and relieving plant operators of these duties.

Stress Engineering has experience in Utility Systems for Raw Water Treatment, Cooling Water Treatment & Waste Water Treatment. We can provide performance monitoring and vendor evaluations for cost control. We can evaluate your current programs, prepare specifications for re-bidding these programs, and assist in evaluating new treatment bids. We also have experience in re-use of municipal wastewater for cooling towers and general plant water balance issues to include optimizing recycle of streams to the plant scrubber, cooling tower or other possible options.

FOR FURTHER INFORMATION, CALL TONY LAMONTE AT 281.955.2900