

Chemists Should Engineer and Supervise HVAC Water Chemistry.



Mechanical engineers design closed systems. As qualified professionals, they carefully specify ASME-certified boilers and assure pumps, piping, fittings, heat exchangers are of proper, low-corrosivity alloys.

When the plant manager assumes responsibility for his systems, his technical advisor should be a chemist or chemical engineer. Each has earned a college degree in chemistry, has intimate knowledge of corrosion mechanisms and how to stop them.

The Engineers' Creed:

National Society of Professional Engineers, adopted June 1954

As an Engineer, I dedicate my professional knowledge and skill to the advancement and betterment of human welfare. I pledge:

- To give the utmost of performance;
- To participate in none but honest enterprise;
- To live and work according to the highest standards of professional conduct;
- To place public welfare above all other considerations;
- To honor my profession before personal advantage;
- To place service before profit.

A poor alternative – chemical salesmen

Sales representatives from proprietary chemical treatment companies often have little or no technical training. They are rewarded if, and only if, they sell chemicals. Treatment formulations are usually watered-down, artificially-expensive mixtures. Chemical salesmen may recommend inappropriate, even harmful chemistries.

As an example, sodium nitrite, mixed with sodium borate is a favorite offering among chemical sales companies. But, nitrite / borate treatment is a poor choice because it: is poisonous, hardens rubber seals and gaskets, oxidizes iron and steel to very fine, abrasive, magnetic iron oxide powder, precipitates as abrasive crystals which wear pump seals and valve stems, increases water conductivity and promotes galvanic (bi-metal) corrosion.



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