



ADVANCED WATER ENGINEERING, INC.

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AWE, Inc Safe D Scale APPLICATIONS

- ◆ *AWE, Inc Safe D Scale* is a scientific liquid descaler specifically designed to dissolve all water scale, lime, rust and other water formed deposits which are found in any type of water operated heat transfer equipment or cooling systems.
- ◆ Each gallon of *AWE, Inc Safe D Scale* will effectively dissolve approximately two pounds of deposit, restoring operating efficiencies to equipment and heat transfer surfaces. Other benefits include lower head pressures, reduced power consumption, increased water flow, and extended equipment life.
- ◆ *AWE, Inc Safe D Scale* is *biodegradable*, *non-toxic*, *non-corrosive*, and *non-flammable* when used as directed. The material may be disposed of down regular sewer drains with a water flush per local regulations. *AWE, Inc Safe D Scale* is safe enough to hold in the open hand. There are no hazards to your equipment, personnel or environment.
- ◆ Most *AWE, Inc Safe D Scale* cleaning may be accomplished within an average of two to four hours of circulation time. Some systems may be cleaned while in operation without the need for shutdown. There is no need to neutralize after cleaning; simply flush dissolved deposits with water and return unit to service.

COOLING TOWER SYSTEMS:

Check spray orifices and clean pans to assure maximum coverage. Thoroughly flush entire system to remove all loose deposits and refill with the minimum amount of clean water to maintain pump circulation. Turn off make-up and bleed-off valves. Slowly add approximately one gallon *AWE, Inc Safe D Scale* for every two tons of tower cooling capacity and circulate until all foaming action stops. Drain and flush system directly to sewer and refill tower, or bleed-off and overflow dissolved solids over several days.

BOILERS, CONDENSERS AND HEAT EXCHANGERS:

Thoroughly flush entire system to remove all loose deposits. Connect circulation pump to lower inlet piping and return to circulation bucket from top of unit. Circulate the suggested *AWE, Inc Safe D Scale* concentration for two to four hours depending on foaming action of discharge. When foaming stops determine *AWE, Inc Safe D Scale* strength by activity on clean concrete. If the solution still foams, equipment should be clean. If there is no foaming action evident, the used material has dissolved its capacity and more fresh *AWE, Inc Safe D Scale* may be added for additional circulation until completely clean. Drain and flush entire system directly to sewer with clean water and refill.

Suggested *AWE, Inc Safe D Scale* cleaning concentrations:

Boilers ... One gallon per boiler horsepower.

Condensers and Towers ... One gallon per every two tons of cooling capacity.

Heat Exchangers ... 50-50 water to *AWE, Inc Safe D Scale* dilution per unit volume.