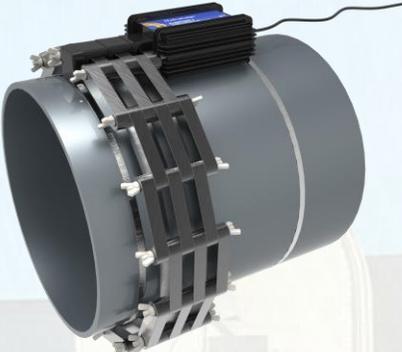


HydroFLOW Case Study - Nuclear Power Station

Administrative Buildings - Cooling Towers - Installed January 2020

Updated: February 2023



Background

The Customer

A massive 3,942 Megawatt nuclear power plant in the Southwest region of the United States.



The Customer's Problem

The plant's maintenance team maintains the cooling towers with traditional chemical water treatment. The problem with bringing water treatment chemicals into a nuclear power plant is that they need to be sent to an on-site lab to be examined before use.

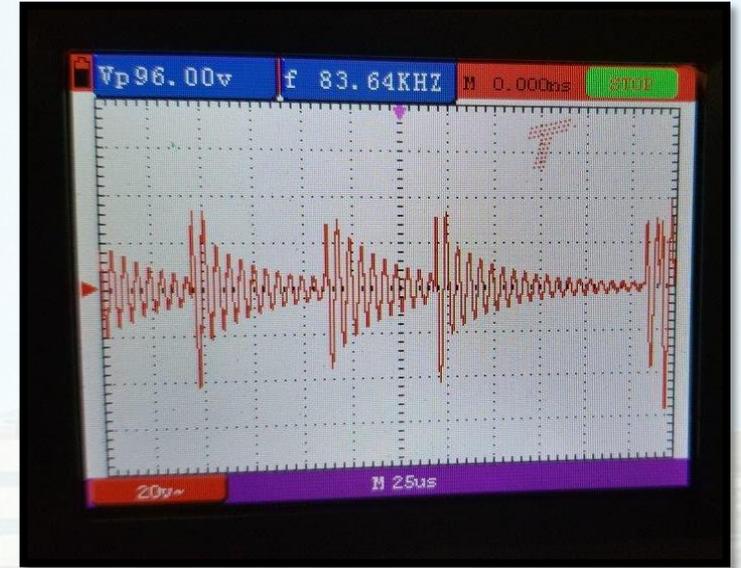
Trane Corporation holds the service contract to maintain the chillers and cooling towers. They were asked if there was any way to eliminate the chemicals. Trane, having had very positive experience with *HydroFLOW* products, recommended they evaluate *HydroFLOW* on a cooling system to prove it can safely allow cooling towers and chillers to operate within industry standards, without chemicals.

Installed Equipment

A *HydroFLOW* Custom unit was installed on the condenser water line feeding the chiller.



Installed *HydroFLOW* Custom unit and Hydropath signal



Results

Trane monitored the approach temperatures on the chillers monthly to assure there was no scale buildup in the chiller tubes or on the cooling tower elements. At the conclusion of a successful evaluation, the plant's maintenance team elected to install *HydroFLOW* units on all the cooling towers of the administrative buildings in January of 2020.

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