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**Problem**

The power utility industry utilizes large volumes of water for steam generation. In these systems, the water used to create steam must be highly purified as even the tiniest impurity will erode the metal turbine blades.

Deminerlized water can be stored in either costly stainless steel tanks or in lined carbon steel tanks. If carbon steel is used the liner must be capable of sealing the steel surface from the leaching nature of DI water.

A major power utility acknowledged that the linings on their new carbon steel tanks had failed due to high levels of volatile organic contaminants (VOC's). Four (4) large deminerlized water storage tanks were about to go on line within 180 days and a coating supplier was sought out who could qualify their product.

**Solution**

**Specialty Coating Solutions (SCS)** was asked to qualify a coating that would have “zero leaching and no VOC's”. Steel samples coated with **100% pure Polyurea** were prepared and submitted to a third party testing firm and found to meet the power industry criteria.

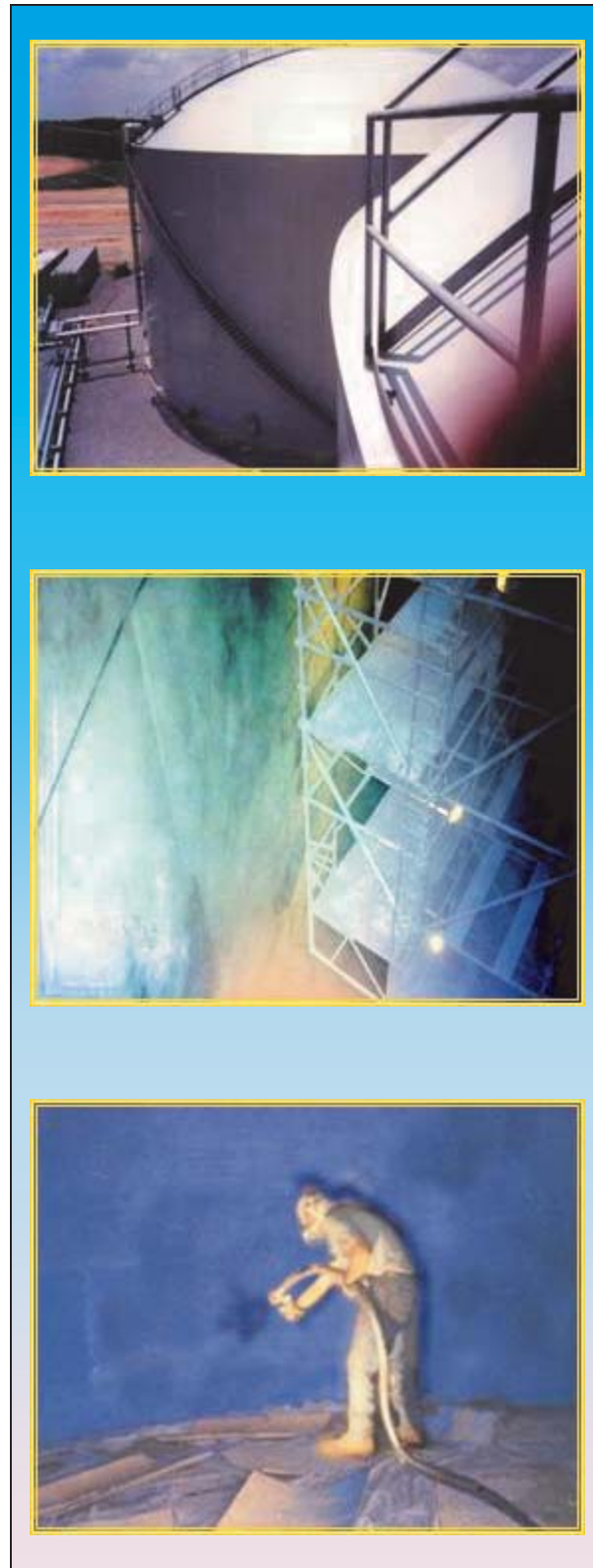
A specification was created in cooperation with the coating manufacturer, client certified NACE inspector and SCS. This specification, new to the power industry, needed to allow for the removal of the existing, failed, epoxy coating system as well as establish guidelines for the installation of the new elastomeric system

**Results**

The project to re-line 4 deminerlized water tanks was a success. The project was completed on schedule and under budget. The tanks were put into production with no measurable levels of VOC's or other detectable impurities.

**Specialty Coating Solutions** accepts the challenge of developing solutions for customers' stringent coating requirements. In this case, together with the coating manufacturer, NACE inspectors and the client an acceptable solution was developed for a most difficult situation.

Deminerlized Water Storage—Power Utility Industry



**THE  
COATING  
SOLUTION**