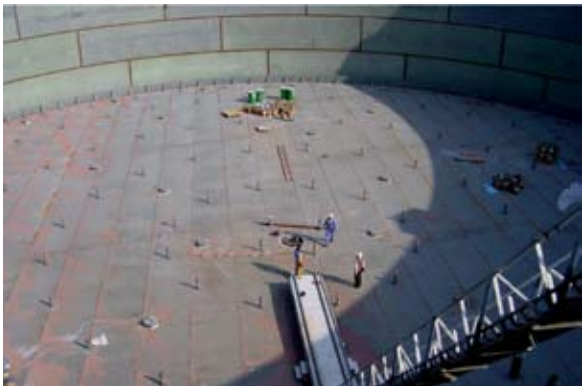
VpCI™ FORMULATED PRODUCTS FOR PROCESS INDUSTRIES

CASE HISTORY

M-645 Float Coating & S-7 Oxygen Scavenger



DATE
December 2006

CUSTOMER
Major Oil Company

CORTEC® DISTRIBUTOR
The Kanoo Group

LOCATION
UAE

PRODUCTS
Cortec® M-645 Float Coating
Cortec® S-7 Oxygen Scavenger

PROBLEM

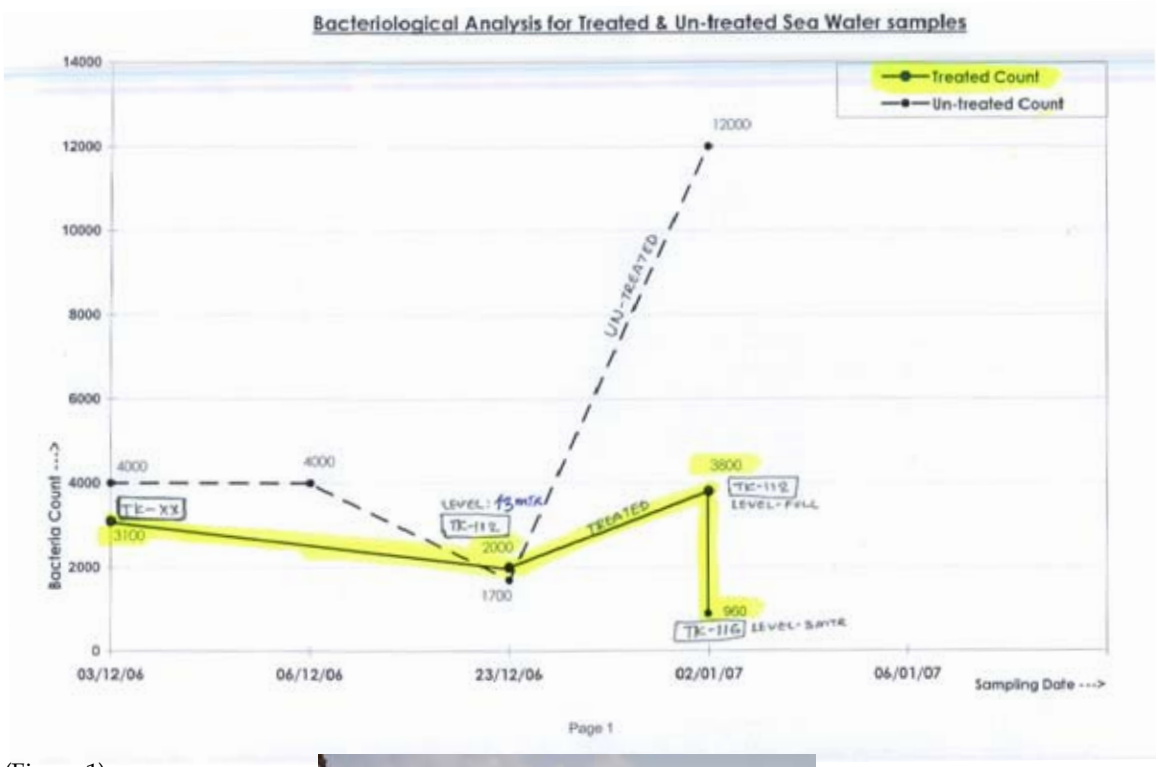
The subcontractor needed to perform hydrostatic testing on the tanks that were fabricated for the customer. The project involved the hydrostatic testing of 11 vessels with capacities varying from 10,382 cubic meters (2.7 million gallons) to 45,156 cubic meters (11.9 million gallons). The subcontractor had to provide an economical and environmentally acceptable method of corrosion protection for interior carbon steel surfaces during hydrostatic testing. Due to the scarcity of potable water in the UAE, it was decided to use seawater for performing the hydrostatic testing. Cortec's system was selected, consisting of M-645 Float Coating and S-7 Oxygen Scavenger.

APPLICATION

Prior to the application, all foreign materials were removed from the tanks. M-645 Float Coating at the concentration of 6 m^2 (per liter) and S-7 Oxygen Scavenger at 100 ppm were added to a tank and then the required volume of seawater was pumped for the hydrostatic testing. The length of the hydrostatic tests of the different tanks varied from 35 to 45 days. The seawater, was reused in several tanks. For the hydrostatic test of the next tank in line, the full calculated amount of M-645 and a reduced amount of S-7 was added. After hydrostatic testing, the interior surfaces of the tanks were immediately cleaned with Cortec's VpCI-418L, a non-foaming cleaner, diluted 3-5% with potable water, to remove any residual chloride prior to application of an epoxy coating.

REASON CORTEC® WAS SELECTED

Cortec® proposed this chemical system which provides the most economical and environmentally acceptable method of effective corrosion protection for interiors of carbon steel tanks subjected to hydrostatic testing using seawater. The customer did not need additional biocide which would have been both costly and environmentally undesirable. The treated seawater, after hydrotesting, meets all requirements for discharge back to the sea. In addition to providing a high level of corrosion protection, Cortec® technology also offers environmental benefits, including biodegradability and the ability to lower bacterial count in treated seawater. (See Figure 1).



(Figure 1)

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