



CORROSION INHIBITING VpCI® POWDERS



# CASE HISTORY

## Preservation of Steam Generation Tube Bundles

**DISTRIBUTOR**  
Texel Engery Services

**LOCATION**  
Oman

**PRODUCTS**  
VpCI®-649  
VpCI®-309 SF

**PROBLEM**  
Ten heat recovery steam generation tube bundles were fabricated by STS in five different modular designs. The customer needed to protect the internal surfaces of these heat recovery steam generation tube bundles.

**APPLICATION**  
During the hydro-testing process, VpCI®-649 was added at 0.25% by weight to provide corrosion protection of the internal systems. This product combines contact and volatile corrosion inhibitors along with anti-scalants in an environmentally friendly formulation that does not contain nitrites, phosphates, chromates, or heavy metals. The hydro-test water was drained and the system air dried. After this, VpCI®-309 SF (which provides up to 24-months of continuous protection) was fogged into the coil bundles at a rate of 350 g/m<sup>3</sup> using compressed air.

**CONCLUSION**  
The client was satisfied with the hydro-test additive and dry powder preservation products that were used as the alternative to traditional methods that are costly and difficult to maintain. Cortec's time-proven preservation system did not need maintenance, and provided the protection the customer was looking for.



**DATE**  
2015

**CUSTOMER**  
Petroleum Development of Oman

**PRESENTED BY:**



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