BELZONA PROTECTION FOR NUCLEAR POWER STATION CW VALVES

ID: 4819

Industry: Power Customer Location: Nuclear Power Station, UK

Application: VPF-Valves, Pipes and Fittings Application Date: December 2013

Substrate: Steel

Products: * Belzona 1311 (Ceramic R-Metal),

* Belzona 1321 (Ceramic S-Metal),

* Belzona 2141 (ACR-Fluid Elastomer),

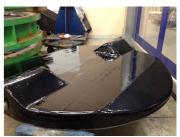
Problem

The non-pressure side of the valve had severely eroded due to corrosion and cavitation. The valve body and particularly the disc were affected.









Photograph Descriptions

- * MCW Butterfly Valve prior to dismantling ,
- * Valve body suffering erosion-corrosion,
- * Non-pressure side prior to rebuild and coating,
- * Non-pressure side rebuild and coated using Belzona 2141,

Application Situation

Butterfly valves controlling main cooling water inlets.

Application Method

Application was carried out in accordance with Belzona Know-How System Leaflets VPF-1 & VPF-2. A hot chemical wash was used to remove salt contamination before completing the surface preparation and coating. The valve disc was coated with 3 coats of Belzona 2141 to provide maximum cavitation resistance. The valve body was protected from erosion-corrosion using Belzona 1321. In both cases the original profiles were restored by rebuilding with Belzona 1311.

Belzona Facts

The Belzona coatings have a proven track record in this environment. Application of the system at the Belzona Authorised Coating

For more examples of Belzona Know - How In Action, please visit https://khia.belzona.com

ISO 9001:2015 Belzona products are
FS 695214 manufactured under an ISO
ISO 14001:2015 9000 Registered Quality
EMS 695213 Management System.

BELZONA®
Repair • Protect • Improve