

BELZONA PROTECTION FOR NUCLEAR POWER STATION CW VALVES

ID: 4819

Industry: Power
Application: VPF-Valves, Pipes and Fittings
Substrate: Steel
Products: * Belzona 1311 (Ceramic R-Metal) ,
* Belzona 1321 (Ceramic S-Metal) ,
* Belzona 2141 (ACR-Fluid Elastomer) ,

Customer Location: Nuclear Power Station, UK
Application Date: December 2013

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
FS 695214
ISO 14001:2015
EMS 695213

Belzona products are
manufactured under an ISO
9000 Registered Quality
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Centre ensured the project was completed efficiently and to the highest quality standards providing long term performance in service for the valve.

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