

Hydropower Draft Tube Rebuild

ID: 10181

Industry: Power

Customer Location: Washington State

Application: TCC-Tanks and Chemical Containment Areas

Application Date: January 2026

Substrate: Carbon steel

Products: Belzona 1121 (Super XL-Metal), Belzona 1321 (Ceramic S-Metal)

Problem

Systemic pitting across the draft tube wall indicated ongoing erosion and corrosion mechanisms that would continue to progress without intervention. A long-term protective solution was necessary to restore surface integrity and prevent further material loss. Belzona counts within the product range for a long-term solution.



Blasted surface



Belzona 1121 was used to rebuild pitting damage



Belzona 1321 Blue first coat



Belzona 1321 Grey second coat

Application Situation

The asset owner required a rapid return to service due to the increased operational demands of the peak generation season. Minimizing downtime was critical to maintaining planned power output, meeting contractual energy supply commitments, and preventing revenue losses associated with reduced turbine availability. As a result, a repair solution capable of fast surface preparation, quick application, and accelerated curing was essential to ensure the unit could be safely and efficiently restored to operation within the limited maintenance window.

Application Method

200 square feet of carbon steel was grit blasted to a minimum of 3mils followed by rebuilding with Belzona 1121, then two coats of Belzona 1321. All work was performed in accordance with Belzona's instructions for use (IFU'S)

Belzona Facts

Scheduling constraints were a critical part of this project. Customer needed a long term repair that could be returned to service ASAP

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ISO 9001:2015
FS 695214
ISO 14001:2015
EMS 695213

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