PELTON TURBINE NOZZLE HEAD

ID: 8935

Industry: Water / Wastewater Customer Location: California Application: **CEP-Centrifugal Pumps** Application Date: December 2022 Substrate: Carbon steel Products: Belzona 1341 (Supermetalglide), Belzona 2141 (ACR-Fluid Elastomer), Belzona 2941 (Elastomer SP-Conditioner)

Problem

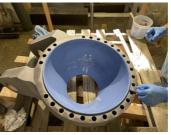
Cavitation damage on the substrate due due to high pressure on the nozzle head



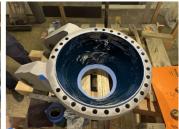
Before / Damage on the Nozzle After abrasive blasting to SSPC Belzona 1341 applied was head



SP-10/3 mil profile Surface Preparation



applied as a base coat as per system instructions



Belzona 2141 applied as a topcoat to protect against future cavitation damage

Application Situation

Cavitation was present due to high pressure and high flow rate at the tip of the pelton turbine nozzle head.

Application Method

Blasting to SSPC SP-10/3 mil profile Surface Preparation. Hand application using short bristled brush and applicator. Belzona 1341 was applied to the blasted substrate. Belzona 2941 conditioner was applied to the Belzona 1341 for correct adhesion with the Belzona 2141 topcoat. Belzona 2141 was applied in a 2 coat system.

Belzona Facts

No other coating was remotely capable to withstand the conditions. The Belzona anti-cavitation system was an excellent option to the replacement solution. The customer saved thousands on using Belzona vs part replacement.

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 Management System.



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