

Flushless and leak free Vertical Turbine with SpiralTrac Seal Adaptor

Power | Hydropower | Mechanical Seal



Application Info & Challenge

3 Voith Siemens vertical hydro turbines running at **600 rpm** with **7.8m pressure**. Fluid is **dirty river water**.

Previous sealing solution is an OEM double rubber lip seal on steel plate which fails after 8 to 12 months when the clean flush pressure drops below river pressure.

Solution & Result

Chesterton 442 260 mm RSC/RSC S EP mechanical seal with a SpiralTrac seal adaptor made of ESC material.

First installation in July 2012.

As of 2017 December, the turbine is still running leak free and flushless after **20,000 hours!** In 2013 the other 2 turbines were converted as well!



Turbine seal failure with OEM solution



Turbine running leak free after 442 and Spiraltrac Adaptor installation

If this Success Story has piqued your interest and would like to know more, our technical support team can always be reached at support@enviroseal.ca. We hope to hear from you!



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