

Water Utility Plant Reduces Downtime and Increases Mixer Basin Reliability

Constantly leaking shaft seals at water utility plant causing costly maintenance, repairs and downtime.

The Problem

The facility's existing stuffing boxes had become severely worn, resulting in an hourglass shape that compromised their functionality. The excess space inside the stuffing boxes prevented the packing from compressing adequately, leading to a constant water leak. This leak washed away the oil from chains and sprockets, significantly increasing maintenance requirements and reducing the lifespan of critical components. The inefficiency posed a risk to operational reliability, demanding an immediate solution.

The Solution

PSS Seal LLC proposed replacing the existing stuffing boxes and packing with the PSS Type B Shaft Seal and Flange. The PSS Type B Shaft Seal is specifically designed to provide a watertight installation, effectively addressing leakage issues. This advanced seal also reduces maintenance demands, making it an ideal replacement for outdated components.

Due to the length restriction of the larger floc basins, PSS Seal developed a custom PSS Type B Shaft Seal with a mounting flange.

“PSS Seal came through with making a seal that would fit. All of the seals that were installed are working flawlessly. It has been a pleasure working with you and your company to make this application of your product work for us.”

Added Value

- **Quick Turnaround:** PSS Seal LLC ensured a swift delivery and installation process, minimizing operational downtime.
- **Ease of Installation:** The straightforward installation procedure enabled the facility's team to implement the solution without unnecessary delays.
- **Operational Continuity:** Reduced downtime was critical for the facility, as it supplies water to a large population. The improved system reliability significantly benefited the utility's operational efficiency.

By transitioning to the PSS Type B Shaft Seal, the facility eliminated the persistent water leakage problem, reduced maintenance frequency, and extended the service life of its components.

“ I sure hope that other utilities have contacted you for those PSS Shaft Seals. By not having to repack and adjust the packing glands and deal with water washing off the oil on the chains and sprockets sure has made our life easier and also increased the life of the chains and sprockets. ”

- Bob W., Lead Operator

Industry: Water Utility

Products: PSS Type B Shaft Seal
Part #03-476-700CU

Flange
Part #07-BF476-700-S

Application: Mixing Basin

Savings: Reduced maintenance
cost and downtime

