

CASE STUDY

Optimizing Wastewater Treatment Efficiency and Safety:

A Case Study in Pump Failures and Electrical Systems Management

"I didn't know all the safety that is built into these...the safest way possible is always going to be the best."

Hector Moreno – City of Richland Public Works, WA Wastewater/Stormwater Supervisor



IMPROVED DOWNTIME



IMPROVED SAFETY



IMPROVED PEACE OF MIND

INTRODUCTION:

Along the Columbia River sits the town of Richland, Washington. There, Richland Public Works stands as a vital guardian of wastewater management for both the environment and public. Hector Moreno, a dedicated worker in the wastewater industry, found himself at the center of a challenge that would test the facility's operational efficiency, worker safety, and mental toughness. This case study takes you through Hector's journey, demonstrating how innovative solutions from MELTRIC® and a commitment to safety can transform a critical wastewater operation.

THE PROBLEM/GOAL:

The mission of wastewater treatment facilities is clear: protect the environment and public health. However, for the Richland facility, this mission was compromised by recurrent equipment and electrical failures. The consequences of which were worrisome: operational downtime, heightened stress, and safety risks. The

primary challenge was the unpredictable downtimes and irregular response times that threatened the facility's 24/7 operations, which are essential for maintaining a clean and safe treatment plant.

THE SOLUTION: MELTRIC® TO THE RESCUE

As Hector embarked on a quest to find a solution, he encountered MELTRIC, a name he was unfamiliar with. It all started with a simple Google search and an inquiry for more information. As the word spread, literature about MELTRIC connectors was distributed by Hector to his colleagues. The decision to adopt MELTRIC connectors was based on their reputation for reliability and safety. These connectors offered a straightforward and secure plug-and-play solution, drastically reducing the risk of electrical accidents.





RESULTS/BENEFITS:

After implementing MELTRIC connectors, the Richland facility observed a transformative shift:

- **Reduced** pump failures and downtime
- **Predictable** maintenance schedules
- **Enhanced** worker safety
- **Improved** operational efficiency

These benefits were not just numbers on paper; they represented a profound impact on the facility's daily operations. Downtime became less frequent, maintenance became predictable, and the workplace became much safer. Efficiency became the easily achievable, rather than the arduous.

MEET HECTOR MORENO: A WASTEWATER WARRIOR

With targets of a 30-minute response time, a 30-minute troubleshooting window, and a remarkable 1-hour repair time when a system fails, Hector Moreno is accustomed to handling crises with efficiency and expertise. But there was a constant shadow looming over his workplace – the unpredictability of electrical failures, often occurring when they were least expected or most crucial. Seven out of ten times, the root cause of these crises turned out to be electrical issues, causing not only stress but also serious safety concerns for the workers at the facility.

IN HECTOR'S WORDS:

Hector expressed his astonishment at the safety features of MELTRIC connectors. "I didn't know all the safety that was built into these." The revelation of the intrinsic safety features brought a sense of relief and underscored the importance of prioritizing safety in the industry.

As for the shift towards predictable maintenance, Hector explained, "I'm building an inventory of spare parts because we need to be running 24/7." With MELTRIC devices, the facility was empowered to maintain a reliable and continuous operation, crucial for safeguarding public health and the environment.

Hector further emphasized the importance of safety in the industry, stating, "The safest way possible is always going to be the best." He noted that, there's rarely a second chance if an electrical mistake is made, reinforcing the paramount importance of safety.

The innate functionality of MELTRIC devices was simply an added benefit. "The functionality is just a benefit, I think, overall." It wasn't just about preventing emergencies; it was about doing the job better and more efficiently.



Based on Richland's experiences we recommend that facilities prioritize safety and operational uptime by exploring reliable and safe electrical connectors.



Contact MELTRIC to try a **free plug and receptacle** today. Make safety and efficiency top priorities in wastewater treatment. Your community and environment depend on it.

meltric.com

4765 W. Oakwood Park Drive • Franklin, WI 53132
414-433-2700 • mail@meltric.com

©2023 MELTRIC Corporation. All rights reserved. CS RICHMONDWW

MELTRIC
A COMPANY OF MARECHAL ELECTRIC