

Lifting pumps are a thing of the past, saving this pump station over **\$9,000** in the first year

### Problem

Pumps were ragging at least once per week at this Water Reclamation Facility (WRF) in the Jordan Basin (South Jordan Pump Station) area in Utah, with a surrounding population of 200,000 and processing 30 MGD. Rags caused audible cavitation noises within the four 125HP pumps, accelerating the need for repair.

- The maintenance team was de-ragging pumps for five to six hours weekly
- **Hazardous** working conditions - exposure to raw sewage and **dangerous** sharps
- Operational efficiency declined with increased equipment **downtime**
- Increased maintenance costs

**“Before implementing the DERAGGER® anti-ragging system, we were pulling pump inspection plates and cleaning by hand biweekly, if not weekly. But after installation of DERAGGERS, we now go two or three months without having to clean by hand.”**

- Kelly Petersen, Jordan Basin WRF



### Solution

The South Jordan Pump Station installed four **DERAGGER®** systems and keypads in 2016. By enabling **Real Time Pump Protection™** to detect rags and run a clean cycle, **DERAGGER®** clears the first rag and **prevents a clogged pump**.

Since installation, all ragging has stopped, and pumps no longer must be lifted and cleaned manually. This translates into maintenance and energy savings for the pump station:

- Estimated staff hours saved: 3 per month or **312 hours per year**
- Estimated cost savings at \$30 per hour: \$780 per month or **\$9360 per year**



# DERAGGER<sup>®</sup>

## MONITOR | PROTECT | CONTROL<sup>™</sup>



**DERAGGER Lite<sup>™</sup>**  
Anti-ragging device  
eradicates pump clogs



**DERAGGER+<sup>™</sup>**  
Real Time Pump Protection<sup>™</sup>



**PowerMonitor<sup>™</sup>**  
Power analyzer &  
data logger

### MONITOR

SCADA Ready		●	●
Data Logging (20 years at 5s intervals)		●	●
Derived Flow		●	

### PROTECT

Anti-ragging	●	●	
Motor Saver	●	●	●
Dry Run Protection		●	●

### CONTROL

0 - 1000+ HP	●	●	●
VFD Compatible	●	●	●
Wet Well Clean		●	
Odor Control		●	
PRO Compatible		●	●



### DERAGGER Pro<sup>™</sup>

Paired with **DERAGGER+<sup>™</sup>** or **PowerMonitor<sup>™</sup>**, simplifies pump station controlling and spreads intelligence across three devices for system redundancy.

Controls up to 16 pumps | 10" - 32" IP65 anti-scratch screen



### KEYPAD

With real time data user interface.  
With the **DERAGGER+<sup>™</sup>** Keypad,  
the SD card stores up to 20 years of  
high resolution performance data.



### ADVANCED KEYPAD

TCP/Ethernet Connectivity,  
built-in LTE available, LORA  
radio, start/stop function.



**INDUSTRIAL  
FLOW  
SOLUTIONS<sup>™</sup>**