



**INDUSTRIAL
FLOW
SOLUTIONS™**

CASE STUDY
STANCOR®

St. Croix, USVI

Critical Water, On Demand: Reuse System for Airport Firefighting Facility uses Stancor® P/S series submersible dewatering pumps



Problem

The Aircraft Rescue and Firefighting Facility at Henry E. Rohlsen International Airport in St. Croix needed a sustainable rainwater collection and reuse system to support critical life-safety operations like fire truck refilling and sanitary use.

The project faced several challenges: limited space for pumps and equipment, strict budget constraints, and the need for a low-maintenance, reliable system suitable for a remote tropical location.

Additionally, the system had to safely repurpose rainwater while meeting environmental standards and provide built-in redundancies to ensure continuous operation during emergencies.

Solution

Stancor® P/S series submersible dewatering pumps were selected to deliver a compact, efficient, & low-maintenance solution.

Three P40C HV pumps with Teflon coating for corrosion resistance were manifolded on a guide rail system inside a 50,000-gallon underground cistern. These pumps move water 500 feet through a six-inch ductile iron pipeline to a remote truck-fill station.

The system includes built-in redundancies, alternating pump controls, flow verification, and a remote pedestal interface for operational ease. By providing compact, corrosion-resistant pumps capable of operating directly within the cistern, Stancor eliminated the need for a separate pump enclosure—reducing installation costs and simplifying long-term maintenance.



Intelligent Pumping Solutions



Stancor® Pumps & Controls, part of the Industrial Flow Solutions™ family, provides reliable dewatering and solids handling solutions for industries such as utilities, mining, and oil & gas. Known for exceptional performance, Stancor® pumps are built to thrive in the toughest environments, ensuring your operations stay up and running.

Why Choose Stancor®?

- **Innovative & Reliable Solutions:** Engineered for extreme environments, ensuring maximum reliability and minimal disruption.
- **Customizable Designs:** Pumps built to fit your unique needs, from existing models to custom designs.
- **Cost-Effective Performance:** Maximizes efficiency, reduces maintenance, & lowers total cost of ownership.

Key Features & Offerings:

- **Electric Submersible Dewatering Pumps:** Ideal for mining, utilities, and oil & gas industries, built to handle demanding applications.
- **Customized Pump Solutions:** Tailored designs to meet specific needs in the toughest environments.

Available Approvals:

- CSA / CTUV
- FM
- MSHA

Available Materials:

- Stainless Steel
- Cast Iron
- Aluminum Alloy

Pump Types:

- Corrosion-Resistant
- Explosion Proof
- High Temperature
- Sand, Sludge & Slurry
- Solids Handling
- Dewatering

Industries



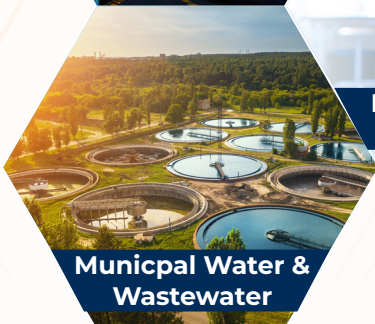
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Power Generation
& Utilities



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