

Salt Dome Upgrade

CUSTOMER SUCCESS STORY



THE CHALLENGES

Our customer's salt dome conveyor system went offline when the hydraulic motor failed, stopping salt movement during critical winter preparation. Their setup relied on **outdated processes, contamination risks**, and a tractor-powered pump that created **unnecessary labor and failure points**.

- **Motor Failure from Contamination:**
Debris caused the hydraulic motor to seize.
- **Conveyor Shutdown:**
Salt couldn't be transferred from the hopper into the dome, stalling winter prep.
- **Inefficient Power Source:**
System depended on a tractor PTO to run an external pump, creating extra steps and wear.
- **Maintenance Gaps:**
Internal staff lacked capacity for routine hydraulic cleanouts and contamination prevention.

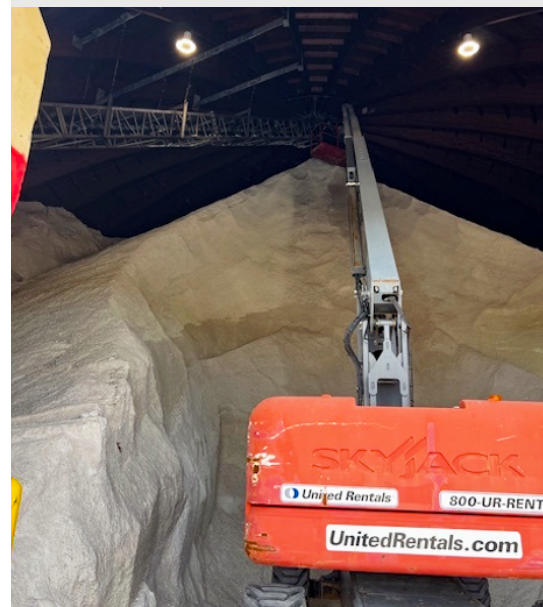
THE SOLUTIONS

FSC delivered a comprehensive restoration and modernization plan that not only addressed the immediate motor failure but also re-engineered the system for long-term durability, easier operation, and lower maintenance demands.

- **Component Upgrades:**
Installed a new hydraulic motor and hose.
- **Contamination Control:**
Added reservoir cleanout, line flushing, and planned oil sampling to prevent future failures.
- **Preventive Maintenance Path:**
Established a quarterly/biannual service model tailored for salt dome environments.
- **Salt-Resistant Design:**
Included stainless-steel components and a protected layout ideal for corrosive environments.

AT A GLANCE

Our customer ran into a serious interruption when the salt dome conveyor motor failed, stopping salt from moving into storage during winter prep. FSC rebuilt the system with updated hydraulic components, removing the need for tractor-powered operation. Along with the repair, FSC introduced a contamination control plan, giving the county a **more dependable setup, simpler maintenance, and a clearer path to avoiding similar failures**.



THE BENEFITS



Higher System Reliability

Modernized power unit removes failure points & eliminates tractor dependency.



Reduced Downtime

Clean hydraulics & upgraded components significantly cut unexpected outages.



Simplified Operation

Fewer technician touchpoints & a single integrated power source.



Lower Lifetime Costs

Reduces recurring repairs & long-term expenses.