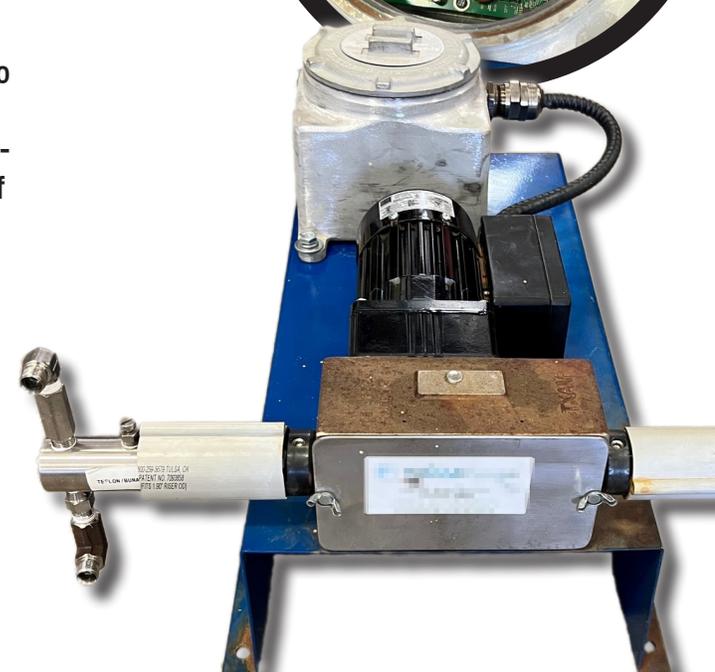
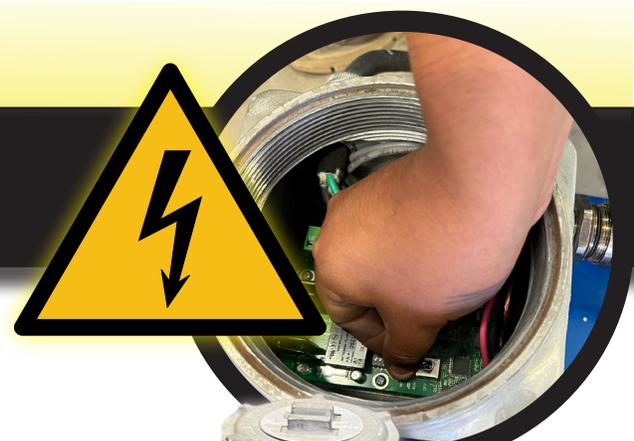


# ELECTRICAL SAFETY HAZARD

## Application Sheet #44

### SITUATION

- An operator maintained a fleet of pumps used in hazardous environments, where an explosion-proof enclosure was used to house general purpose pump controls.
- Opening the enclosure to access the controls exposed the electronics to the hazardous environment, defeating the purpose of the enclosure and creating a safety hazard.
- To access the controls, the user must place their hand in to a "blind" enclosure that contains a live, exposed, 120V circuit.



### CUSTOMER VALUE

- Eliminated safety hazards:
1. explosion risk
  2. electrocution risk
- Improved accuracy  
SCADA compatible



### SOLUTION

- Sirius replaced the controls with a Fusion2 hazardous-rated pump controller, with push-button digital controls.

### RESULTS

- The safety risks of explosion and electrocution were eliminated.
- The Sirius controller further provided:
  - Rate control in Q/d rather than timer-based on/off time.
  - Improved accuracy from digital control vs. coarse timer settings.
  - Access to SCADA for remote access and control.
  - Ability to tie into autonomous feedback rate control using the InSight Smart Sight Glass.

