



Automated H₂S System

Application Sheet # 28

CUSTOMER VALUE

SITUATION

- The customer wanted a hazardous area rated, fully automated H₂S scavenger injection system that would adjust rates based on live H₂S levels.
- They were renting very expensive skid units to control H₂S. Automating these skids using feedback control was not possible.
- A manually adjusted chemical pump was located at separator inlet.
- The customer wanted to track data for chemical usage and performance in H₂S reduction.
- The chemical program in place calls for a H₂S scavenger with rates varying from 0 to 300 Q/day to mitigate H₂S levels.

SOLUTION

- A Sirius AC Fusion hazardous rated injection systems was installed at existing locations.
- With an analog input tied into the Fusion controller, the PLC is programmed to inject ranges from 0 to 300 quarts per day based on the levels received from the H₂S analyzer.
- Using RS485 Modbus, the Fusion controller provided feedback control based on in-situ results along with the data for tracking purposes.

Saving capital through automated H₂S scavenger rate control. Huge reductions in H₂S scavenger.

RESULTS

- The 700:1 turndown on the Sirius Pump allowed the customer to handle the full capacity of chemical injection without mechanical adjustments.
- H₂S levels are under control.
- Reduction in H₂S scavenger of close to 50%.
- Capital equipment costs significantly reduced.



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