

CONDENSATE CLOSED DRAIN FROM PROCESS GAS MAIN SCRUBBER



BACKGROUND

Industry (upstream, midstream, downstream): Upstream

Place (country): Mexico

Date: February 2017

Application / process equipment: Condensate closed drain from process gas main scrubber

ENVIRONMENT

Process conditions:

- **Fluid (gas / liquid):** Liquid
- **Pollutants (H2S, CO2, sand, etc.):** H2S
- **Pressures:** 2-3 KG/CM2
- **Flow rate:** 3000 BBLD
- **Specific gravity:** 0.9048
- **Temperature:** 32 C



CASE DEFINITION

PROBLEM

The amount of condensates in the process gas stream increased, reaching unexpectedly high levels in the scrubber. This forced the turbocompressors to recirculate, and the originally installed 1" control valve (1/2" seat) was unable to discharge the condensates properly.

SOLUTION

We re-sized the valve according to the current quantity of condensates. We also fabricated a bracket to install the new valve to an existing Siemens PS2 Electropneumatic Positioner.

BENEFITS

Efficiency, operational reliability.

PRODUCTS USED

Kimray Products (part numbers / description): EQQS6NC-2"

FMT150RF PB PO 2" IV S6 NC

Non-Kimray Products: Siemens PS2 - Electropneumatic Positioner