

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 unexpected hh levels in the scrubber which forced the turbocompressors to recirculate, situation caused due that the original 1" control valve (1/2" seat) installed was unable to discharge the condensates properly.

SOLUTION

Re-sizing of the lv according to the current quantity of condensates and fabrication of a bracket to install the new kimray control valve to an existing siemens ps2 electropneumatic positioner.

BENEFITS

Efficiency, operational reliability.

PRODUCT

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

FMT150RF PB PO 2" IV S6 NC

Non-Kimray products used: Siemens PS2 - Electropneumatic Positioner