

# CASE STUDY

## INDUSTRIAL CLEANING IN EUROPEAN COUNTRIES



## **SCOPE**

Over the last five years, West Penetone has met the demands of European industrial markets, including those in the oil and gas sector, by developing effective chemical programs to degas and decontaminate a variety of units.

## **The PROBLEM**

Meeting industrial cleaning demands in European markets requires aligning cleaning outcomes with environmental, sustainability, and industrial hygiene goals. This alignment also involves responding to rapidly transforming operational needs, including automation and the use of robotics, to create a workflow that addresses concerns related to waste effluent management, emissions control, and responsible chemical deployment.

## **Our SOLUTION**

West Penetone's alignment to European market demands has effectively addressed a variety of job completion issues associated with arbitrary chemical program development and deployment. Our project plans include assessing equipment capacities, mechanical versus chemical cleaning requirements, and identifying a targeted and efficient chemical program, all to ensure deployment of an effective treatment protocol that reduces turnaround schedules while providing the best possible outcomes.

## **RESULTS ACHIEVED**

In each case, gas contaminants, such as H<sub>2</sub>S and VOCs were successfully reduced to zero and goals effectively reached with no impediments in workflow during the mobilization or demobilization stages.



| ASSET                         | REGION | CHEMICAL PROGRAM & GOAL                                  | METHODS OF DEPLOYMENT        |
|-------------------------------|--------|----------------------------------------------------------|------------------------------|
| <b>Sour Water Tank</b>        | Norway | <b>SCAVEX WTC</b> , fluid treatment/emissions control    | Field verified direct dosing |
| <b>Amine Treater SCOT</b>     | Sweden | <b>PENBLITZ 510H</b> , Pre-commissioning                 | Liquid Circulation           |
| <b>Amine Treater GPU</b>      | Sweden | <b>PENBLITZ 510H</b> , Pre-commissioning                 | Liquid Circulation           |
| <b>Electrostatic Desalter</b> | Greece | <b>ROC 55X</b> , Decontamination                         | Vapor Phase                  |
| <b>Crude Desalter</b>         | Greece | <b>ROC 55X</b> , Decontamination                         | Vapor Phase                  |
| <b>HC Cold Separator</b>      | Greece | <b>ROC 40-E3</b> and <b>CITRIKLEEN</b> , Decontamination | High-pressure washing system |
| <b>CDU Desalter</b>           | Greece | <b>ROC 40-E3</b> , Decontamination                       | Vapor Phase                  |
| <b>HT Separator</b>           | Greece | <b>ROC 40-E3</b> , Decontamination                       | Vapor Phase                  |
| <b>Crude Desalter</b>         | Greece | <b>ROC 40-E3</b> and <b>CITRIKLEEN</b> , Decontamination | Vapor Phase                  |
| <b>Various</b>                | Greece | <b>ROC 60VP US</b> , Decontamination                     | High-pressure washing system |

## *A comprehensive and integrated approach*

With over 100 years of product development, manufacturing and application experience, the West Penetone family of companies has designed and patented many products to satisfy the needs of our clients world wide.

Our technical group provides customers effective support to ensure that contaminants are paired with the right chemistry for any task.

Establishing and maintaining a collaborative approach with our customers in tackling their operational and maintenance challenges is key to realizing efficiencies and cost savings.

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