Nexo Solutions. Latest Projects at Worldwide Locations

Nexo Solutions has extensive expertise in the area of specialized technical support, process separations engineering, advanced analytics and on-site testing & troubleshooting. During the past ten years we have completed over worldwide 300 projects in many different facilities.

**Canadian Gas Plant.** A methanol recovery unit was experiencing high fouling rates in its stripper column and feed filtration system. Nexo Solutions conducted an extensive fouling tendency analysis and found the root-cause of the issue to be hydrocarbon contamination.

**US Refinery.** An amine unit was experiencing foaming leading to considerable amine carry-over in its absorber. Nexo Solutions conducted on-site testing to quantify the amount of lost amine and developed an economics analysis to justify the need for an amine recovery system.

**US Chemical Plant.** A glycol recovery boiler was having issues with high solids and associated disposal and maintenance costs. Nexo Solutions performed filterability testing on the feed and determined the most effective filtration system design for continuous solids control.

**Canadian LNG Plant.** An LNG facility experienced difficulties in removing mercaptans from the feed gas. Nexo Solutions performed extensive on-site evaluation and testing for the various mercaptans. Additionally, methods for mercaptans removal were reviewed and developed.

**South American Petroleum Company.** A crude oil desalting and dehydration systems was not functioning properly leading to high water in the crude oil. Nexo Solutions performed a complete systems evaluation. Change in mechanical and process parameters, in combination with enhanced water quality were implemented reducing the water contamination by 95%

**South American Gas Company.** Nexo Solutions were on site at an upstream gas and petroleum extraction operation with contamination soil with crude. Nexo Solutions implemented a bioremediation program with the Envirosol N-100 to reduce the hydrocarbon contamination from 40,000 ppm to below 5,000 ppm in 4 months.

**Middle East Gas Plant.** Nexo Solutions engineers were on site to evaluate a faulty inlet separation system causing plant capacity decrease and flaring natural gas. Installation of a new vessel with correct design and internals enabled the plant to run at capacity with no instability.

**Europe Refinery.** Hydrocarbon in a sour water plant caused considerable fouling and corrosion. On site testing and evaluation was performed detecting a deficient flash-tank. Reconfiguration of the vessel interior enabled the correct hydrocarbon separation and fouling minimization.

**South American Gas Company.** A gas processing company experienced problems with liquid contamination in their compressed gas systems. Nexo Solutions performed testing to quantify and characterize the liquid contaminants and proposed a system for liquids removal.

For additional information, please visit our website at [www.NexoSoutions.com](http://www.NexoSoutions.com)