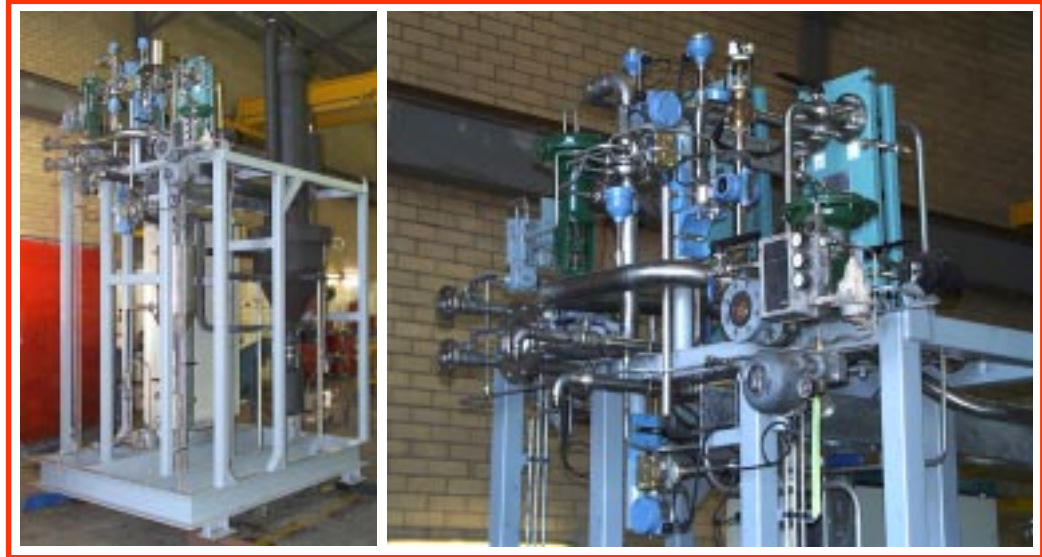


Heavy metals recovery plant for mineral process gases



OBJECTIVES

- To construct a working pilot rig for the recovery of heavy metals from process gas steams.
- Providing all the detail design, drawings, materials, manufacture, electrical work, programming together with transport and site installation.
- Including a comprehensive on-board Supervisory Control and Data Aquisition System.
- Designed and constructed to the client's own strict in-house design and safety standards.

INTRODUCTION

Control and Thermal Engineering were approached to detail design and manufacture a concept for the recovery of heavy metals from a mineral process gas stream.

Although a level of security surrounds the actual concept, it can be said that the rig consisted of a refrigerated chiller driving a two-stage plate heat exchanger cooling system, liquid separators, element filtration and several collection pots.

The rig included an on-board high level SCADA (Supervisory Control and Data Aquisition) system monitoring and collecting data from more than a dozen level, temperature, flow and pressure sensors. Using this information to control and adjust a number of pumps and control valves.

Utilizing stainless steel construction to provide long life and minimal maintenance. Together with insulating all chilled lines and vessels.

After trialing the rig's operation at Control and Thermal's facilities, the rig was transported to site where connection lines were surveyed, manufactured at CTE and finally fitted on site to complete the system.

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