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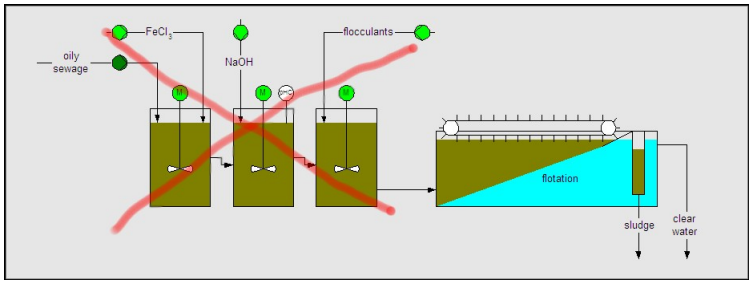
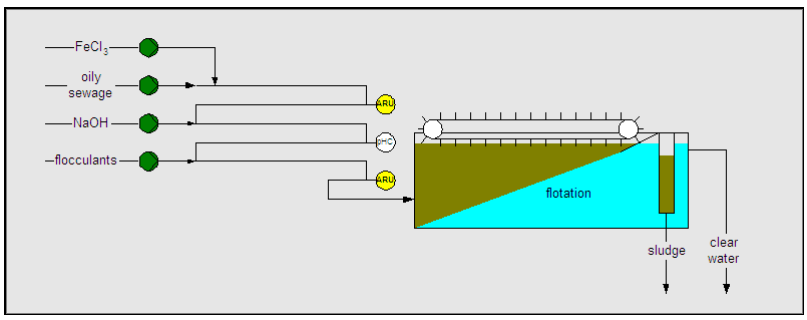
Automatic Precipitation / Flocculation of oily Sewage

The oily sewage from the production of a metal processing company is purified continuously by the addition of precipitation and flocculation agents and subsequent separation of ingredients in a flotation plant (< 60 m3/h). The optimal dosage of chemicals is fully automated by **ARU** dosing control systems.

The aim of the measure was the optimization of the costs of chemical agents and the amount of the produced sludge. At the same time, a consistently good quality of water discharge should be ensured.



The dosage of both chemicals originally took place in continuous-flow stirred vessels. The vessels were replaced by a reaction line with some elbows. The amount of chemicals is now controlled by **ARU** dosing control systems and **ARU** - transmitted-light measurements.



With the automation of the chemical dosage, the chemical costs have been significantly reduced. Optical control of the chemical dosage has increased the ease of operation and the operating reliability of the plant. **ARU** dosing controls are fully integrated into the process control system. In addition the demolition of a mixing reactor could reduce the space requirements of the plant significantly.