UPM-Kymmene Schongau – AIM provides cleanliness

Order description / Solution:

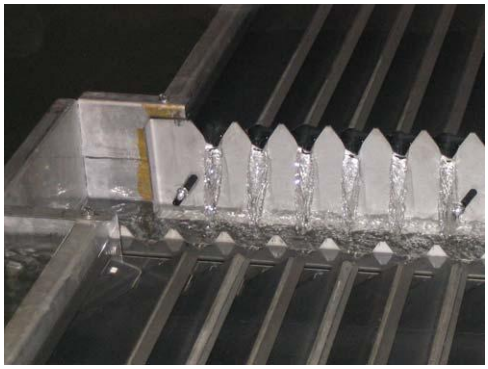
The task was to replace the existing aerobic reactor Ø 10m, H = 25m and by return adopting an anaerobic IC reactor for the purpose to produce electric energy with CHP by using the arising biogas.
Paques, a company from the Netherlands, was in charge of process engineering for the reconstruction.
Detail-engineering, structural analysis, as well as manufacturing and assembling were included in scope of work of AIM.
The special feature of this project is that AIM was able to cover the whole package with the complex laser - sheet blanks, the welded structures for the container reinforcements, the steel structures for the rounded stage, and dimensioning and layout of biogas pipelines in PE by covering the full scope with in-house capabilities.
Furthermore the adaption of the stock was problematic because the tolerances for the mounting parts were very accurate and the container did not have the required accuracy and the static preconditions. Due to acquired skills of AIM's staff over the last years, these problems had been solved

Project description – Norske-Skog, april–october 2005

Contract Description / Solution:

Supply of a river water purification plant in the form of a plate separator.

Solution:
Planning with detailed engineering of the fittings components consisting of 4 pcs. of laminated plate with 89 pcs. plates plus supports and sub-constructions, sheet metal intakes and outflow gutters in the form of a height-adjustable toothed weit. The entire construction was produced at the works in stainless steel, pre-assembled and fully erected, assembled and started-up in only a few days taking advantage of an operational shutdown.



Project Description – State Hospital Graz

Contract Description / Solution:

The reverse osmosis unit constructed is used for the production of germ and salt-free water for use in various medical areas (sterilisation of instruments, kidney rinsing…) as also mixed with untreated water for the preparation of hot water.
As a result of the extremely high quality and availability requirements two lines with an output each of 20 m³/h product water were implemented. Each line consists of a fine filter phase, high pressure pump, reverse osmosis membrane block, chemicals dosing station, product water tanks and network supply pumps. The fully desalinated water is take to sterilisation by a UV unit. A CIP system (for “cleaning in place”) was installed for rinsing and cleaning the membrane elements.
The separate components of the reverse osmosis unit were installed in stainless steel container frames and fitted out with pipes and electrical cabling at the AIM works. The disassembly of an existing old unit at the State Hospital in Linz, maintaining of operation by a provisional small-scale unit during the construction of the new facility and the placing and pipe connection of the pre-fabricated reverse osmosis container were also tasks included in the AIM service schedule. The work was completed with the assembly of all the tanks, pumps and other aggregates in the desalination room together with the complete pipeline and its components. Assistance in the start-up work for the unit rounded off a highly successful contract.

Text source: INTERGEO Umwelttechnologie und Abfallwirtschaft GmbH, 5020 Salzburg