

Design of Nalco Chemical Company's Advanced Recycle Center (ARC)

Nalco's ARC tests water recycle options at a customer's site before implementing this in the real process. Waste water can be upgraded to for instance drinking water, boiler feed water or cooling water by means of membrane filtration, sand filtration, activated carbon, flotation, plate settling etc. The ARC focuses on reuse as cooling water.

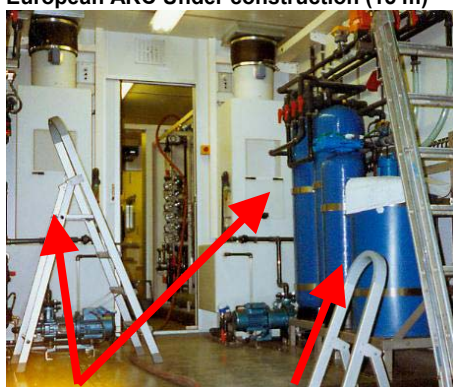
While still working for Nalco, I designed the ARC: wrote specifications for all process steps, selected equipment and secured proper implementation. A daughter company did construction management. The ARC was budgeted at \$500.000.



European ARC Under construction (15 m)



Michael DvT runs the American ARC in Florida



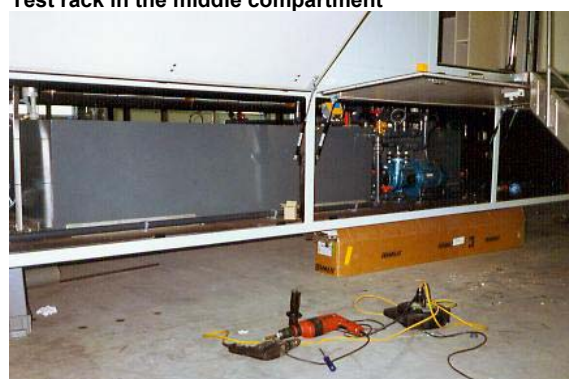
Cooling towers and several filters in the back



Test rack in the middle compartment



Lab and kitchen



Storage tanks underneath for max. flexibility

(Pictures: ing. Michiel A. Doude van Troostwijk)

Nalco, Advanced Recycle Center are registered trade names of Nalco Chemical Company.