



Veolia MPPE Technology

Coatings/Printing Ink/Resin production - USA

Resin production waste water

- Akzo Nobel (Coatings)
- TOTAL – Cook Resins (Houston)
- DuPont (Printing Inks)
- Operational since 1998



Challenge

- Waste water from Coating/ Printing Ink/Resin Production like alkyds, acrylic and polyester resins
- Frequent fouling of existing steamstripper from heat polymerization
- Replace existing steamstripper



Performance

MPPE removes:

- Aromatics, BTEX 200,000 -> 20 ppb

MPPE Unit capacity 5m³/h (30g pm)

Process wastewater discharge to Louisville's Metropolitan Sewer District is regulated under the Organic Chemical, Polymer, Synthetic Fiber (OSPSF) category standards of the U.S. EPA.

Vs. steamstripper:

- Lower costs (50%)
- Less space (1/3)
- Higher capacity (4x)
- Trouble free

The MPPE process

MPPE stands for Macro Porous Polymer Extraction. Polymer beads contain a specific immobilized extraction liquid. Hydrocarbon contaminated water is passed through a column packed with MPPE particles. The hydrocarbons are extracted from the water at any designed efficiency up to 99.999%. The MPPE particles can simply be regenerated by heating with steam. The removed hydrocarbons are recovered as an almost 100% pure product. No other waste stream is created. No chemicals required, no off-gasses produced.

MPP & TiPSS Technologies

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