Veolia MPPE Technology

Offshore Gas Produced Water treatment -

Operational since 2002
• Robust against salt, surfactants, Corrosion inhibitors
• Fulfilling NAM’s environmental goal beyond present legal requirements

Challenge
• Remote control
• Practically no space on existing platform
• Dissolved/dispersed toxic content removal for Zero Harmful Discharge

Performance

MPPE removes:
• Dispersed oil (aliphatics) <30 ppm
• Dissolved and dispersed aromatics (BTEX) >90%
• Poly Aromatics (PAHs) >99%

MPPE Unit capacity 4.2 m³/h
• Built in container
• Placed on Top deck
• Including steam boiler
• No waste stream

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.