Veolia MPPE Technology

TOTAL F 15A Offshore - NL

Offshore Gas Produced Water treatment - Unmanned Operation

Operational since 2002
- Robust against salt, surfactants, Corrosion inhibitors
- Fulfiling TOTAL’s environmental goal beyond present legal requirements

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

Performance
MPPE removes:
- Dispersed oil (aliphatics) > 99%
- Dissolved and dispersed aromatics (BTEX) >99%
- Poly Aromatics (PAHs) >99.5%

MPPE Unit capacity 5 m3/h
- Built in container
- Hanging 50% outside platform
- Fully integrated including
  - steamboiler
  - water maker
- 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 requires, no off gasses produced.

MPP & TiPSS Technologies
Veolia Water Technologies
Techno Center Netherlands B.V.
Celsiusstraat 34
6716 BZ Ede
The Netherlands
Phone: +31 (0) 318 664010
Email:mppsystems@veolia.com
www.mpptechnology.com & www.tipsstechnology.com

WATER TECHNOLOGIES
January 2017