



## Veolia MPPE Technology

## TOTAL F 15A Offshore - NL

### Offshore Gas Produced Water treatment- Unmanned Operation



#### Operational since 2002

- Robust against salt, surfactants, Corrosion inhibitors
- Fulfilling 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



#### 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.



#### Performance

##### MPPE removes:

- Dispersed oil (aliphatics)
- Dissolved and dispersed aromatics (BTEX)
- Poly Aromatics (PAHs)

##### MPPE Unit capacity 5 m3/h

- Built in container
- Hanging 50% outside platform
- Fully integrated including
  - steamboiler
  - water maker
- No waste stream

##### MPP & TiPSS Technologies

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