

ESDU-SPG-M7-2



Apr.08: Fouling mitigation in pre-heat trains. Network simulation

Unamended
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Fouling mitigation in pre-heat trains

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Contains confidential information

Aim

Optimise retrofits of pre-heat trains subject to fouling

Simulate

- PHT operation and different configurations
- HEXs and pumps

– Fouling

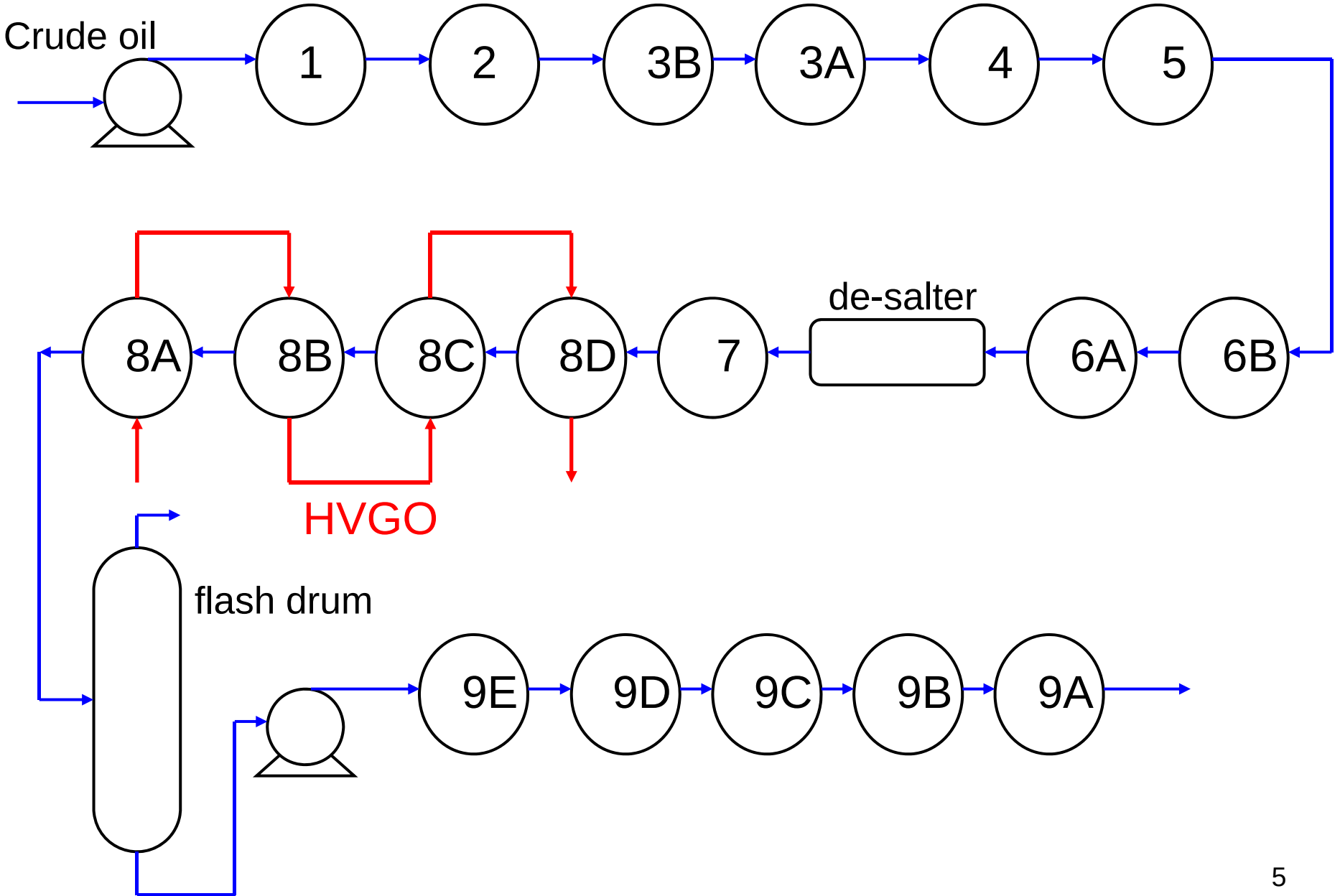
Sub-projects A-F

Lumped parameter
models



Key project stages

- Construction of network simulator
 - Fouling rate dynamics
 - Thermal and hydraulic impact
 - MATLAB and EXCEL
- Applications
 - Simulation of network operation
 - Scheduling exchangers for cleaning
 - Comparison of fouling mitigation options
 - Retrofit
- Verification
 - Comparison with plant data



Plant data

