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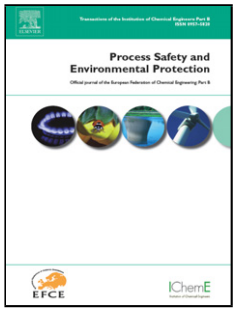

Title: Design of a water allocation and energy network for multi-contaminant problems using multi-objective optimization

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PII: S0957-5820(16)30006-4
DOI: http://dx.doi.org/doi:10.1016/j.psep.2016.03.015
Reference: PSEP 724

To appear in: *Process Safety and Environment Protection*

Received date: 30-11-2015
Revised date: 21-3-2016
Accepted date: 22-3-2016

Please cite this article as: Almaraz, S.D.-L., Boix, M., Montastruc, L., Azzaro-Pantel, C., Liao, Z., Domenech, S.,Design of a water allocation and energy network for multi-contaminant problems using multi-objective optimization, *Process Safety and Environment Protection* (2016), http://dx.doi.org/10.1016/j.psep.2016.03.015

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Highlights

- Design of water allocation and heat exchange networks in the process industries
- Two-step optimization for large multi-contaminants problems
- Multi-objective optimization is used to solve WAN problem
- Pinch analysis and mathematical programming are used to solve the HEN problem
- A change of phase is treated in the studied case study for the HEN design.

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