



Advanced Operator Support – On-line Event Analysis for Root Cause Analysis and Mode Detection

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Advanced Operator Support – On-line Event Analysis for Root Cause Analysis and Mode Detection

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Cost Transformation 1 - Operations and Maintenance Technology

Operator efficacy can be significantly improved by incorporating design and operation knowledge in control room automation. By implementing a support system that provides less, yet more relevant information, the operators' effort to acquire information is relieved in favour of making informed decisions to mitigate the situation.

Functional modelling has been shown as an efficient way of representing knowledge about the plant behaviour without the need for detailed quantitative models. Consequently, functional models facilitate analysis and decision support at a supervisory level.

We present an integration of the functional modelling framework with the on-line events available in the control room to enable more intelligent plant-wide diagnosis.