



Contribution ID: 47

Type: Poster

Development of Multi-Alarm Pattern Card for an Effective Selection of Abnormal Operation Procedure in MCR

Thursday, 27 August 2015 14:00 (1h 30m)

The number of abnormal operation procedures (AOPs) for mitigating a plant abnormal status amounts to about one hundreds for the most of 1000MWe optimized power plant (OPR1000) and it is expected that the number of AOPs would be increased to cope with an abnormal status occurred newly. However, it is not well organized for operators to select a proper AOP from alarms occurred in main control room (MCR) during a plant abnormal status. It may be a burden to operators since the selection of AOP to respond an abnormal status is authorized by operators. When multiple alarms occur in MCR, it would take more time to respond them than a single alarm. To reduce the efforts, various MCR operation support systems have been developed. The purpose of this study was to develop a multi-alarm pattern card to select an appropriate AOP effectively when multiple alarms occur in a single upper layout (UL) of MCR. It can be applied for an operation support tool as well as an education tool.

Key Words: main control room alarm, abnormal operation procedure, multi-alarm pattern card

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Session Classification: Session 11C: Posters: Energy, Environment, and Climate Change