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NUCLEAR KNOWLEDGE LOSS RISK MANAGEMENT (lessons learned, implementation experiences)

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The paper seeks to develop a model for risk management of nuclear knowledge loss in a process-based organization in the Czech Republic. The study uses a project lessons learned approach. In the first stage, existing practices are examined to develop both the model for risk management of knowledge loss and the knowledge loss risk assessment. In the second stage, the KM model is evaluated by testing it in a real life of our two power plants (Temelín and Dukovany). The methods integrated as the foundations of the integrated KM and risk management model are based on the latest innovation management solutions, with strong focus on knowledge and risk management in energy and utilities and ČEZ risk assessment framework. The analytical approach includes a six-dimension integrated model that manages all critical success factors of knowledge management risk management. The results show that, after 7 years of implementing the model became a part of working life in our plants. The integrated KM and risk management model can be used to assist the planning, establishment and evaluation of knowledge loss in projects and operations. This helps to ensure that key issues regarding knowledge loss are covered during the planning and implementation phases. The study provides an integrated perspective of KM in process-based organization. It offers valuable guidelines that can help decision makers consider key issues during a risk assessment of knowledge factors in project management. Outputs of this model can prepare an extensive assessment report about the risk of knowledge loss in a nuclear business.

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