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Periodic safety reviews: basis and benefits of improving safety

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To ensure the effective fulfillment by operator of national and international safety requirements, the systematic safety reassessments of the Nuclear Research Facility (NRF) should be performed periodically on the basis of graded approach with due account to potential hazard associated with a specific facility.

The regulatory body establishes frequency of the safety assessments to be performed by the operating organization, and identifies a set of safety issues to be considered during the assessment. Based on the assessment (self-assessment) results the regulatory body takes decision with regard to the acceptability of the NRF safety and its continued operation for the period before the next planned reviewing. If the safety requirements are not fully met, the operating organization must make actions to reach or restore the required level of safety including NRF modifications.

The report presents information on the methodology and experience of application of the Periodic Safety Review (PSR) for enhancement of NRF safety that covers assessment of all aspects of NRF safety operation and involves also the cumulative effect of various factors affecting the assessment results.

From the report it is clear that PSR provides a consistent, reliable means for identifying and taking timely preventive measures to eliminate deficiencies in safety of NRF operation and is an effective tool for improving of safety through implementation of international good practices by the both operating organization and regulatory body.

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