

N105. Full System Decontamination Qualification Program - BWR Qualification Program

The objective of the BWR qualification program, funded by EPRI and Commonwealth Edison Company, was to evaluate the feasibility of a full system decontamination of a BWR with the fuel removed, with specific emphasis on long-term materials performance, decontamination process, and system interaction, radioactive waste management, recontamination, economics, and licensing considerations.

The BWR studied, carried out by GE Nuclear, was restricted to the LOMI process. Following a detailed review of the materials data base, it was concluded that the LOMI process was acceptable for full system decontamination. No plant material surveillance is required on return to power, although crack growth measurements are recommended if crack-arrest verification equipment is available.

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