

N104. Full System Decontamination Qualification Programs - PWR Studies

A comprehensive test program to evaluate corrosion, friction, and wear effects of two decontamination processes, LOMI and CAN-DEREM, was carried out under expected plant applications conditions. The tests included the unique materials and sample configurations dictated by the Westinghouse generic PWR components and also included standard PWR corrosion coupons. Specimens were also provided by Combustion Engineering for the corrosion test program. Results indicate that there are no significant detrimental effects related to the chemicals employed in the AP/LOMI and AP/CAN-DEREM processes tested on primary system materials and components. For most materials of construction, the LOMI process yielded less corrosion, but the expected corrosion rates are very low (much less than 1 mil) for both processes with no evidence of stress corrosion cracking.

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