CHEMICAL DECON OF SYSTEMS: RESULTS AND PROBLEMS

Keywords: CONTAMINATION REMOVAL; FULL SYSTEM DECONTAMINATION; SUB-SYSTEM DECONTAMINATION

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Objectives:
1) Summarize the work done to date on the National Demonstration of a full system decontamination at Indian Point 2, scheduled for 1995.
2) Summarize the fuel decontamination qualification program at the V.C. Summer site.
3) Summarize the results of the Fuel-In Full RCS Chemical Decontamination Seminar conducted on July 1993.
4) Present recent Westinghouse subsystem decontamination experience.

Comments:
2) Fuel Decon Qualification Program was completed at V.C. Summer in 1993. It was found that the post-decon fuel cladding corrosion behavior was unaffected by decontamination processes.
3) All attending utilities at the Fuel-In Full RCS Chemical Decon Seminar expressed interest in establishing a comprehensive program leading to qualification of fuel-in FSD. Westinghouse will elicit additional support and report back.
4) Westinghouse has conducted 18 sub-system decon applications at 11 different plants from 8/91 to 3/93. Fourteen of the applications were performed at BWRs, the rest at PWRs. The processes used include LOMI, CAN-DEREM, CANDECON and CITROX.

Remarks/Potential for dose limitation: A successful FSD will have significant impact on efforts to reduce worker radiation field exposure. Westinghouse, in conjunction with several utilities and other organizations, are on schedule for a 1995 FSD demonstration.


Duration: from: 19 to: 1993 Funding: N/A
Status: In progress Last Update: November 29, 1993