

## BNL ALARA Center Data Base

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### NATIONAL DEMONSTRATION OF A FULL RCS CHEMICAL DECONTAMINATION

**Keywords:** CONTAMINATION REMOVAL; FULL SYSTEM  
DECONTAMINATION; DECONTAMINATION; PWR

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**Objectives:** Provide a status report on plans for a FSD of Indian Point 2 in 1995 and detail several tasks that Consolidated Edison is working on toward that goal.

**Comments:** In 1988 Consolidated Edison, EPRI, ESEERCO and nine other utilities began a qualification program on how to chemically decontaminate the entire Reactor Coolant System of a Westinghouse PWR. A FSD is planned for Indian Point 2 in 1995. The majority of the services for the decon will be performed by Pacific Nuclear and Westinghouse. Some of the areas that Con Ed is working on are:

- 1) BMI Seals - Obtain and train personnel to install new high pressure seals for use while the Bottom Mounted Instrumentation is removed during FSD
- 2) Clean Seal Injection for RCP Seal - Prevent plugging of the seal injection cartridge filter or damage to the RCP seals at high particulate levels during FSD
- 3) Develop a test plan to monitor every aspect of the FSD
- 4) Dead leg flushing - Identify areas where the piping may have to be flushed after the FSD.
- 5) Reactor Water Storage Tank Clean Up
- 6) Calculate and track decontamination factors and recontamination rates
- 7) Demobilization of decontamination equipment

**Remarks/Potential for dose limitation:** The plans to perform the first chemical decontamination of a PWR in early 1995 are on schedule. There are no major technical concerns with the implementation plan, just a lot of work.

**References:** Parry, John O., "National Demonstration of a Full RCS Chemical Decontamination," *Fifth Workshop on Chemical Decontamination*, pp. 27.1-27.27, Electric Power Research Institute, Charlotte, North Carolina, 1993.

**Duration:** from: 1988 to: 1995

**Funding:** N/A

**Status:** In progress

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