

## **N282. Developing the Reactor Operating Procedures for Full-System Decontamination**

The objective of the EPRI reactor decontamination procedures development program was to develop the engineering evaluations, and procedures for the first U.S. full-RCS (reactor coolant system) chemical decontamination at IP2 (Indian Point 2).

The following information needs to be provided while preparing the procedures:

- Identify the various plant modifications and decontamination process system interfaces that are required to maintain the decontamination operating conditions and to preserve materials exposed to decontamination solvents.
- Identify operational and design requirement for off-normal NSSS (nuclear steam supply system) operations associate with the decontamination process, required interface between NSSS and the decon process system, temporary NSSS modifications, and the methodology for handling liquid waste volumes generated.

Westinghouse is also addressing the NSSS equipment and material concerns. The contractual work scope includes additional engineering evaluations, analysis, pre- and post-decontamination equipment testing, maintenance and inspection procedures, and the design and manufacture of a shield storage tank that will permit the removal of specific NSSS components prior to the start of the full-RCS chemical decontamination operation.

*Taken from, "Developing the Reactor Operating Procedures," by T. Bengel, EPRI Radiation Control News, No. 18, August 1993, p.3. (Electric Power Research Institute, 3412 Hillview Avenue, Palo Alto, CA 94303).*