

BNL ALARA CENTER

Processes and Practices Related to Occupational Dose

ID: 7

CLEAN-UP PROCEDURE FOR VALVE SEAT GRINDING

Keywords: VALVE CLEAN-UP PROCEDURE; VALVE GRINDING CLEAN-UP; OPERATIONAL AND MAINTENANCE TECHNIQUES; IMPROVED PROCEDURES; COBALT REDUCTION; VALVES; CLEANUP

Description:

EPRI research has found that a large percentage (10 to 30%) of cobalt entering the primary coolant is associated with metal filing from grinding of valves seats (30 to 90 grams). Improved clean-up procedures on valve internal surfaces during and following grinding can significantly reduce and even eliminate this source of cobalt. This practice is highly cost effective since the only cost involved is the expense involved in cleaning and containing metal filings.

References and Selected Abstracts:

1. Heard, D.B., and Freeman, R.J., "Cobalt Contamination Resulting from Valve Maintenance," EPRI NP-3220, August 1983. (Research Reports Center, Box 50490, Palo Alto, CA 94303)
2. Boston Edison Company Memorandum, Kraft, E.S, Jr. to Anderson, N., "Reduction of Cobalt-60 Intersion during Valve Maintenance," July 8, 1988.