

**BNL ALARA CENTER****Processes and Practices Related to Occupational Dose****ID:** 1010**DOSE REDUCTION PROCESSES EVALUATION AND PRIORITIZATION PLAN****Keywords:** DOSE REDUCTION; PROCESS EVALUATION; PRACTICE EVALUATION; PRIORITIZATION PLAN; OPERATIONAL AND MAINTENANCE TECHNIQUES; COST/BENEFIT**Description:**

Numerous modifications, processes and practices can be implemented to reduce occupational exposure at nuclear power plants. Several utilities have recently taken a systematic approach to evaluate the optimum and most cost effective options for dose reduction. Dose reduction task forces with representations from the major disciplines have been established. These task forces have been charged with the development of a long range dose reduction plan. Recommended actions are presented to upper management of the most cost effective improvements and actions which will result in reduction future collective radiation exposure.

**References and Selected Abstracts:**

1. Public Service Electric and Gas, "Collective Radiation Exposure Task Force Report for Hope Creek Generating Station," April 1, 1989.
2. Boston Edison Company Letter, "Radiation Source Reduction Project LTP Item #266 Initiating Task Items," RS 88-136, October 20, 1988.
3. Carolina Power and Light Company, "A Report on Cobalt Source Identification and Reduction Techniques for Light Water Reactors," December 1987
4. Virginia Power Co., "Technical Evaluation of Techniques for General Plant Radiation Field Strength Reduction," June 12, 1987.
5. Walton, F.B., "Options for Radiation Field Reduction: This Potential and Benefit to Cost Ratio," Water Chemistry of Nuclear System, BNES, London, 1978.