

**BNL ALARA CENTER****Processes and Practices Related to Occupational Dose****ID: 1021****COST-BENEFIT ANALYSIS AND PAYBACK PERIODS****Keywords:** COST-BENEFIT ANALYSIS; PAYBACK PERIODS; OPERATIONAL AND MAINTENANCE TECHNIQUES; COST/BENEFIT**Description:**

The decision to invest or implement a dose reduction modification involves the evaluation of many considerations. Some decision making techniques used to evaluate the merit of a particular dose reduction modification are the C/B analysis and payback period

**References and Selected Abstracts:**

1. Northeast Utilities, "Corporate Management Program for Maintaining Occupational Exposures ALARA," Procedure 2, ALARA Economic Evaluations, October 1988.
2. Baum, J., and Matthews, G., "Compendium of Cost Effectiveness Evaluations of Modifications for Dose Reduction at Nuclear Power Plant," NUREG/CR-4373, December 1985. (Available from National Technical Information Service, Springfield, VA 22161.)
3. Mann, B.J., "Cost Benefit Analysis as a Decision Tool for Occupational Radiation Protection," Radiation Protection Management, January, 1984.