

**BNL ALARA CENTER****Processes and Practices Related to Occupational Dose****ID: 27****MSIV AUTOMATIC LAPPING AND HANDLING EQUIPMENT (BWR)**

**Keywords:** MSIV AUTOMATIC LAPPING; OPERATIONAL AND MAINTENANCE TECHNIQUE; IMPROVED PROCEDURES; COBALT REDUCTION; VALVE; CLEANUP; MAINTENANCE; HANDLING FIXTURE; MEAN STEAM ISOLATION VALVE LAPPING

**Description:**

A permanently installed MSIV maintenance device is available to facilitate disassembly, relapping, and reassembly of the MSIV when a valve fails to pass the leak test. The device can reduce man-hours required for maintenance by one-third compared to conventional valve maintenance using traveling hoists and crane falls. These devices are in common use in Sweden and are probably cost-effective for plants having significant valve maintenance requirements. The projected repair frequency considering the relaxation of the MSIV leakage criteria should be factored into the case by case evaluation.

**References and Selected Abstracts:**

1. Johnson, C.P., et al., "Collective Radiation Exposure Task force Report-Hope Creek Generating Station," April 1987, p. 51.
2. Ishii, K., "Controlling Exposures in BWRS," Nuclear Engineering International, June 1986, pp. 27 & 28.