

**BNL ALARA CENTER****Processes and Practices Related to Occupational Dose****ID: 79****MAIN STEAM ISOLATION VALVE LEAKAGE IMPROVEMENTS****Keywords:** MAIN STEAM ISLATION VALVE LEAKAGE; MSIV LEAKAGE**Description:**

Repair and inspection of main steam isolation valves in BWRs contributes an average of about 20 person-rem per year collective dose (NUREG/CR-4254). An anti-rotation device and guidance system has been designed to improve MSIV leak tightness. One test of this device showed an improvement of a factor of three in leakage rate. Other options for reducing MSIV leakage are to replace existing valve seats with a flat-face valve seat. The BWR owner's group is also proposing to the NRC to increase the allowable leakage limits to 100 csf per hour or more per valve.

**References and Selected Abstracts:**

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