Processes and Practices Related to Occupational Dose

ID: 79

MAIN STEAM ISOLATION VALVE LEAKAGE IMPROVEMENTS

Keywords: MAIN STEAM ISOLATION 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 cfs per hour or more per valve.

References and Selected Abstracts: