Processes and Practices Related to Occupational Dose

ID: 48

SEMI-AUTOMATIC BWR CRD OVERHAULING AND INSPECTION DEVICE

Keywords: SEMI-AUTOMATIC CRD OVERHAULING; OPERATIONAL AND MAINTENANCE TECHNIQUES; CONTROL ROD; MAINTENANCE, IMPROVED TOOLING AND DEVICES

Description:

Description: Hitachi offers a semi-automatic control rod drive disassembly and cleaning system. The system provides underwater disassembly and cleaning using high-pressure water. Work can be done by three people and Hitachi claims reduction of one-third in working time, 40% in manpower, and between 50-70% in radiation exposure. Since this job typically contributes about 20 person-rem collective exposure per year, significant dose savings are possible. Toshiba also offers an improved system with similar savings. The Hope Creek plant is planning to install a remote handling device. In addition, plans have been made for installation of semi-automatic CRD disassembly and cleaning system at the Hope Creek plant.

References and Selected Abstracts: