

BNL ALARA CENTER**Processes and Practices Related to Occupational Dose**

ID: 74

SEMI-AUTOMATIC CRD DISASSEMBLY AND CLEANING SYSTEM**Keywords:** REMOTE MAINTENANCE; SEMI-AUTOMATIC; CRD DISSASSEMBLY; REMOTE SYSTEMS; CLEANING SYSTEM**Description:**

Hitachi offers a semi-automatic control rod drive disassembly and cleaning system. The systems 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 offers a system with similar savings. The Hope Creek plant is planning to install a remote handling device.

Plans have been made for installation of a semi-automatic CRD disassembly and cleaning system at the Hope Creek plant.

References and Selected Abstracts: