

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

ID: 60

**WIDE-RANGE NEUTRON MONITORING SYSTEM (BWRS)**

**Keywords:** NEUTRON MONITORING; COMPONENT RELIABILITY; EQUIPMENT MODIFICATION AND REPLACEMENT; MONITORING; IN-CORE MONITORING

**Description:**

Modern systems of in-core monitoring for BWRs offer significant potential for dose reduction due to their long life for the detectors approximately six full-power years, and essentially no maintenance requirement due to their fixed in-core locations. Greater reliability should also improve plant availability through reduction of reactor trips, associated with this equipment.

**References and Selected Abstracts:**

1. Johnson C.P., et. al., "Collective Radiation Exposure Task Force Report: Hope Creek Generating Station," April 1987.