

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

ID: 59

VIEWING WINDOWS**Keywords:** VIEWING WINDOWS; SHIELD WINDOWS; WINDOWS**Description:**

Periodic visual observation of operating equipment for adequate lubrication inspection and proper operation causes a significant collective dose in nuclear power plants. Many plants have found that additional water-filled glass viewing windows or orientation of viewing windows with respect to instruments and equipment, are beneficial for dose reduction since they minimize the requirement for personnel access in radiation areas for routine surveillance or periodic operations. Plant locations where viewing windows have been installed included: radwaste storage areas, reactor water cleanup cubicles and CRD repair room.

References and Selected Abstracts:

1. Baum J.W. and Matthews, G.R., "Compendium of Cost Effectiveness Evaluation of Modifications for Dose Reduction at Nuclear Power Plant," NUREG/CR-4373, December 1986. (Available from National Technical Information Service, Springfield, VA 22161.)
2. Johnson C.P., et. al., "Collective Radiation Exposure Task Force Report: Hope Creek Generation Station," April 1987, p. 50.