

## BNL ALARA CENTER

**Processes and Practices Related to Occupational Dose**

ID: 76

**UTILITY SERVICES**

**Keywords:** UTILITY SERVICES; OPERATIONAL AND MAINTENANCE TECHNIQUES; INCREASED WORKER PRODUCTIVITY PENETRATIONS; LIGHTING; BREATHING AIR; HUMAN FACTORS

**Description:**

Improvement in the general working environment in many plant locations can enhance worker productivity, effectiveness, and thereby result in lower exposures. Improvement in utility services are important in this regard. Examples of improvements include: (a) utility penetrations added adjacent to the doors of high radiation areas to allow passage of air, water, and electric lines without opening and closing doors to the controlled area. (b) lighting improvements, especially in high-radiation areas, are important (this prevents work delays and inefficiencies associated with the use of portable or temporary lighting); (c) whenever possible, fixed breathing air systems installed to avoid the need for setting up temporary service.

**References and Selected Abstracts:**

1. Johnson C.P., et. al., "Collective Radiation Exposure Task Force: Hope Creek Generating Station," April 1987, p. 48.