

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

ID: 23

**HOT SPOT REDUCTION**

**Keywords:** HOT SPOT REDUCTION; RADIATION SHIELDING; CONTAMINATION REMOVAL; RADIATION SOURCE RADIATION HOT SPOT; FLUSH; HOT SPOTS

**Description:**

Areas and equipment that exhibit relatively high radiation levels is greater than 5-10 times ambient dose rates are called "hot spots." These hot spots, if not reduced by flushing, decontamination, barricading or shielding will result in increased dose during routine operations and during outages. Several utilities have instituted formal programs to reduce hot spots which have proven successful for reducing dose.

**References and Selected Abstracts:**

1. Louisiana Power and Light Company, Waterford 3 Procedure HP-1-117, "Hot spot Identification Report," October, 1988. Boston Edison Company, Pilgrim Nuclear Power Station instruction SI-RP. 0000, "Hot Spot Reduction Program," July 1989.
2. Boston Edison Company, Pilgrim Nuclear Power Station Procedure 6.1-018, "Radioactive Hot Spot Control Program," September 1989.