N48. New lesson plan packages

• HOT PARTICLE UPDATE

Hot particles continue to be a major radiological controls challenge at many plants. A lesson plan package has been designed for training technicians on industry events, with focus on the technician's role in assuring that personal exposure is minimized during hot particle retrieval. The implications of recent research and regulatory changes, including the Nuclear Regulatory Commission's interim enforcement policy and NCRP Report No. 106, is presented. Pitfalls and good practices, identified at a variety of plants, are presented.

• POOL SIDE EVENTS

Water is an excellent ALARA tool, providing shielding while allowing visibility and use of underwater tools. However, the shielding effect of water in spent fuel pools and flooded reactor cavities can rapidly be lost due to source movement or streaming through underwater tool handles. A lesson plan package has been designed for training technicians on industry events, with focus on the technician's role in improving pool side job control. In addition to the events described in NRC Information Notice 90-33, the lesson plan covers lessons learned from other events, such as crud burst effect on pool side dose rates. Pitfalls and good practices from industry experience are presented as they relate to the role of the technician in minimizing unexpected exposure from rapid changes in water shielding.

• COMMUNICATING RISK

Technician words and actions can affect whether or not worker perception of the risk of exposure conforms to the attitude of "healthy respect" recommended by the NRC. A lesson plan package has been designed for training technicians on industry events, with focus on risk messages conveyed intentionally and unintentionally by technicians. Updates on BEIR V and NCRP Report No. 106 are included. NIOSH guidelines for risk communication to workers are used as a framework for presenting pitfalls and good practices from industry experience.

• DOSIMETRY PLACEMENT PITFALLS

This lesson plan package is designed for training technicians on industry events, with focus on the technician's role in ensuring appropriate dosimetry placement on workers. The regulatory basis for dosimetry placement is discussed, including the June 1989 memo from NRC Headquarters to the various Regions stressing that Information Notice No. 81-26, Part 3, Supplement 1 has been misinterpreted by some licensees and inspectors. The five major causes of dosimetry placement violations are presented, as are pitfalls and good practices from industry experience.

For more, contact Health Physics Case Study Service, General Physics Corporation, Columbia, MD. (301) 290-2300.