

Enclosure 3
EPRI (Electric Power Research Institute) Slide Presentation
Meeting Summary of 12/2/2009 Meeting with
NRC/EPRI
Dated December 15, 2009



EPRI

ELECTRIC POWER
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Highlights: Radioactive Material Monitoring and Control Guideline /Alpha Monitoring Guideline Update

NRC Public Meeting

Dec. 2, 2009

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Radiation, Chemistry, Low-Level Waste



Overview

- Guideline Committee Members
- RAM Control Guidelines
 - Document Objectives
 - Discussion Highlights
- Alpha Guideline Update
- Process for Obtaining EPRI Reports

RAM Control Guideline Committee Members (>90% Reactor Units Represented)



RAM Control Guideline Document Objectives

- Objectives:
 - To promote consistency and identify industry best practices for radiological monitoring and control of personnel and materials.
- Guideline addresses monitoring and control of
 - Material
 - Personnel
 - Equipment

RAM Control GL Document Chapters

- Introduction
- Definitions
- Equipment and Material Monitoring and Control
- Personnel Contamination Monitoring
- Calibration and Performance Checks of Personnel and Equipment Contamination Monitors
- References
- Appendices
 - Appendix A: Example Release Process
 - Appendix B: Example Material Release Plan and Form
 - Appendix C: Monitoring Considerations
 - Appendix D: Determination of MDC
 - Appendix E: Information on Managing Workers with Radiopharmaceutical Uptakes

Highlights

- Chapter 3: Equipment and Material Monitoring and Control
 - Monitoring Responsibilities and Notification Process
 - Plant Personnel (including contract workers)
 - RP Supervision
 - RP Technicians
 - Unconditional Release of Materials from RCA
 - Tools, Equipment, Non-Volumetric Materials
 - Items with potential for internal contamination
 - Personal Items (e.g. flashlights, pagers, cell phones)
 - Volumetric materials (e.g. soil, concrete)
 - Vehicles

Highlights

- Chapter 4: Personnel Contamination Monitoring
 - Responsibilities
 - Plant personnel
 - Radiation Protection Technicians and Supervision
 - Contamination monitoring requirements for radiological areas
 - Provides an example of a whole body contamination monitor flow process

Highlights

- Chapter 5: Calibration and Performance Checks
 - Includes recommendations for calibration and performance checks of personnel and equipment contamination monitors:
 - Beta-sensitive whole body
 - Gamma-sensitive whole body
 - Gamma-sensitive article monitor
 - Beta-sensitive hand and foot
 - Beta and alpha sensitive scalers and rate meters
 - Also provides an example methodology (in Appendix) for evaluating impact of beta and gamma hard-to-detect (HTD) radionuclides.

Alpha Guideline Update

Most significant changes:

- Added clarifying statements about using the beta-gamma to alpha radioactivity ratio:
 - areas with low alpha activity levels, such as less than 20 dpm/100 cm², should be assigned Level I Area
- Replaced count “highest” smear with count “representative” smear in Level 1 and 2 Areas of Table 4-1

How to Get Access to a Restricted EPRI Report- New Process

1. To access EPRI reports, provide Product ID to NRC Librarian
 - Radioactive Material Monitoring and Control Guideline→1019224 (copyright-only report)
 - Alpha Monitoring Guidelines for Operating Nuclear Power Stations→1019500
2. For copyright-only reports:
 - EPRI report is viewable but not downloadable nor printable.
 - If need to print or download, Librarian can submit request to EPRI.
3. For licensed reports, NRC Librarian submits access request to EPRI.

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