

Decommissioning of Nuclear Facilities/MARSSIM



This 5-day course will focus on the planning processes, decisions, and regulatory requirements associated with the decontamination and decommissioning of a nuclear facility. The course will cover technical, project management, regulatory and environmental issues associated with decommissioning.

With more attention being directed toward the decommissioning of nuclear facilities, the need for a standardized approach for implementing the necessary radiological surveys became apparent. A multi-agency committee representing the NRC, DOE, EPA

and DOD has addressed this need by producing a guidance document known as the MARSSIM manual (the multi-agency radiation survey and site investigation manual). The recommended protocols are quite different from what most of us in the "nuclear business" are familiar with. This course will familiarize participants with the theory and implementation of the MARSSIM manual and lead participants through the decision-making processes involved in the design and implementation of a MARSSIM-based decommissioning survey. Topics include: an overview of radiological survey types, selection and application of DCGLs, the data quality objectives process, survey instrument detection sensitivity, background reference area selection, area classification, measurement uncertainty, statistical design of surveys and performing statistical tests. Lessons learned from actual industry experience will be presented and audience questions and participation will be encouraged.

Introduction

- Objectives
- Content
- Primary DOE & NRC References
- International Perspective
- Decommissioning in the United States
- MARSSIM overview

Pre-Planning for Decommissioning

- Decommissioning Objectives
- Decommissioning Alternatives
- Regulatory Requirements
- Decommissioning Considerations
- Communication Plans

Waste Issues

- Solid Waste
- Radioactive Waste
- Mixed Waste

Decontamination

- Decontamination Program
- Methods
- Emerging Technologies
- Contamination Control Program

Nuclear Facility Shutdown and Transition Activities

- Disposition of Radioactive Material
- Program Reductions
- Destaffing
- Personnel Retention Programs
- Decommissioning Activities Using 10 CFR 50.59

Regulatory Issues and the MARSSIM Manual

- Overview of Radiological Survey Types in Support of Decommissioning-Historical Site Assessment Process, Scoping, Characterization, and Final Status Surveys
- RESAD

- Selection and Application of DCGLs
- Selection of Background Reference Areas
- Area Classification by Contamination Potential & Identification of Survey Units
- Detection Sensitivity of Survey
- Statistical Design of Final Status Survey
- Integrated Final Status Survey
 - Survey Activities
 - Survey Coverage by Area Classification
 - Investigation Levels
- Indistinguishable from Background
- Final Survey Reports

Decommissioning Plant Development

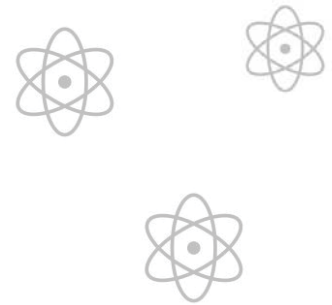
- Dose modeling methods
- Decision methods for dose assessment
- Decommissioning Plant Development
- Environmental Compliance
- Protection of Occupational and Public Health and Safety
- Solid Waste Management
- Funding
- Technical & Environmental Specifications
- Quality Assurance

Environmental Issues

- Regulatory Requirements
- Site Characterization
- Environmental Pathways
- Radiological Effluents & Monitoring
- Chemical & Hazardous Material Control Programs

Decommissioning Cost Estimates

- Requirements
- Available Guidance
- Key Considerations
- Unit Cost Factor Methodology
- Cost Estimating Software
- Industry Experience
- Decommissioning Funding



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