

United States Nuclear Regulatory Commission

Protecting People and the Environment

Future of Nuclear Materials Users and Decommissioning and Low Level Waste Business Lines

Bill Borchardt Executive Director for Operations October 2, 2012

Purpose

 Provide the Commission with a strategic look at the Nuclear Materials Users and Decommissioning and Low Level Waste Business Line



Protecting People and the Environment

Mark A. Satorius, Director Office of Federal and State Materials and Environmental Management Programs

Brian J. McDermott, Director Division of Materials Safety and State Agreements

Agenda

- Business Line Drivers
- Product Line Accomplishments
- Outlook and Strategy
- Summary

Agency's Mission

License and regulate the Nation's civilian use of byproduct, source, and special nuclear materials to ensure adequate protection of public health and safety, promote the common defense and <u>security</u>, and <u>protect the environment</u>.

Business Line Drivers

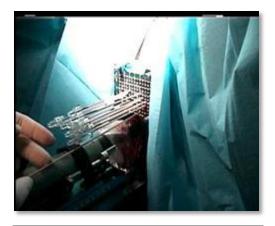
- Technological
- Societal
- Economic
- International

Product Lines

- Rulemaking and Research
- State, Tribal, & Federal Programs
- International Activities
- Licensing
- Oversight
- Homeland Security
- Event Response

Rulemaking and Research

Expanded 10 CFR Part 35 Medical Rulemaking



Brachytherapy Procedure



Medical Event Reporting Workshop in NYC

Rulemaking and Research

Radiation Protection Standards

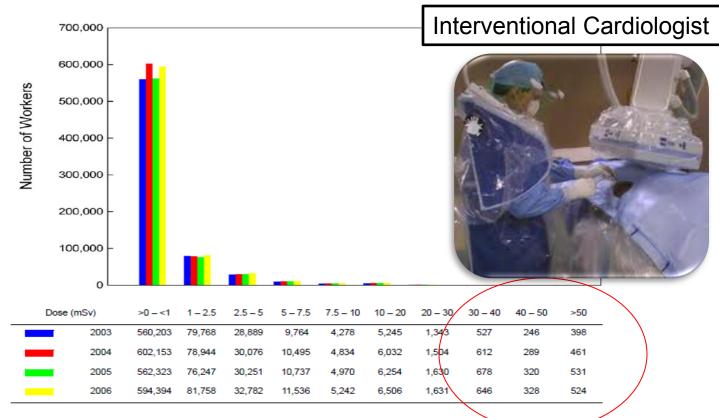


Fig. 7.5. Dose distribution for workers with recordable dose for the medical category, 2003 to 2006.

State, Tribal and Federal



International Activities









IAEA Safety Standards

Radiation Protection and

Radiation Protection and Safety of Radiation Sources: International Basic Safety Standards INTERIM EDITION

General Safety Requirements Part 3 No. GSR Part 3 (Interim)



Licensing

NUREG 1556 21 Volumes



ViewRay System



MASEP Rotating Gamma System



Oversight



Medical Inspections



Irradiator Inspections

Self Assessments and Audits



Homeland Security

Source Management



Source Security



Summary

- Many Uses, Many Licensees
- Interdependent Regulators



Mark A. Satorius, Director Office of Federal and State Materials and Environmental Management Programs

Larry W. Camper, Director Division of Waste Management and Environmental Protection

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Business Line Drivers

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Product Lines

- Licensing
- Oversight
- Research and Rulemaking
- International Activities



Licensing

Decommissioning



Uranium Recovery Decommissioning Site – United Nuclear Corporation Churchrock Mill in New Mexico Zion Reactor Vessel Head in Shipping Container



Licensing

In-Situ Recovery



Cameco Smith Ranch, Wyoming In-Situ Recovery





Inspector conducting gamma surveys at Hydro Resources, Inc. Decommissioning Site in New Mexico

Oversight

Waste Incidental to Reprocessing



Savannah River Site's Saltstone Disposal Facility

Savannah River Site's F-Area Tank Farm Grouting Operations



Research and Rulemaking

Low-Level Waste 10 CFR Part 61 Rulemaking



Waste Control Specialists Low-Level Waste Disposal Site (Agreement State Licensee)

Research and Rulemaking

Prompt Remediation Rulemaking



Former NRC Commissioner Merrifield and Brian Holian take radiation readings on the Shieldalloy slag pile

International Activities and Support

IAEA Vienna International Center





Assistance to Other Countries

Summary

- Produces Diverse Products
- Faces Strategic Challenges
- Awareness and Long-Term
 Planning In Place