



Agenda

- Welcome and opening remarks
- NRC's regulatory role:
 - Technical review, licensing, and inspection
- Question and answer session
- Adjourn

U.S. NUCLEAR REGULATORY COMMISSION PUBLIC MEETING

Wednesday, August 31, 2005
Ala Moana Hotel, Honolulu, Hawaii



NRC Staff

- Leonard D. Wert -Director, Division of Nuclear Materials Safety
- Jack E. Whitten - Chief, Nuclear Materials Licensing Branch
- Roberto J. Torres -Senior Health Physicist

Opening Remarks

- Please hold questions until later in session
 - Oral or written
- Respect each others point of view
- Moderator

Purpose of this Meeting

- Enhance public awareness of the NRC's independent regulatory role in protecting public health and safety, security, and the environment.
- Allow early public involvement and support openness in NRC decision-making

NRC Communications

- Receipt of application -June 27, 2005
- NRC press release - July 27, 2005
- Publication of Federal Register Notice - August 2, 2005
- Public meeting notice in NRC's website - August 12, 2005
- NRC press release -August 23, 2005

Petition to Request Public Hearing

- Issued on Federal Register Notice on August 2, 2005
- Petition should be filed by October 2, 2005
 - <http://www.nrc.gov/what-we-do/regulatory/adjudicatory/hearing-license-applications.html>
 - www.hearingdocket@nrc.gov

NRC's Regulatory Role

- Atomic Energy Act of 1954: Atomic Energy Commission
- Energy Reorganization Act of 1974: Nuclear Regulatory Commission -independent regulator
- Oversight:
 - Nuclear reactors, nuclear materials, nuclear waste
- Three major functions:
 - Licensing, inspection and enforcement, regulatory research

NRC's Mission

- To license and regulate the civilian use of nuclear materials to ensure adequate protection of public health and safety, promote the common defense and security, and protect the environment.
- How we do it
 - Development of regulations and guidance
 - Licensing of facilities
 - Inspection and enforcement activities

Licensing Process

- Applicant requests license
- Announce receipt and perform initial review
- Conduct technical review and inspections
- Coordination with State, local, other Federal agencies
- Communicate results to the public
- Deny or issue license

Licensing Process

- Two step licensing process
 - Preoperational license allows testing, training, dosimetry assessment and radiation surveys
 - Operational license

Focus of Technical Review

- Design and performance requirements
 - Performance criteria of sealed sources
 - Shielding to protect workers and members of the public
 - Radiation monitors
 - Control of source location
 - Source rack protection
 - Construction and acceptance testing

Focus of Technical Review

- Other areas of technical review
 - Personnel training
 - Operating and emergency procedures
 - Personnel monitoring
 - Radiation surveys
 - Detection of leaking sources
 - Inspection and maintenance
 - Recordkeeping and reporting requirements

Technical Review

- 10 CFR Part 36, Licenses and Radiation Safety Requirements for Irradiators
 - <http://www.nrc.gov/reading-rm/doc-collections/cfr/part036/>
- NUREG-1556, Volume 6, Program-Specific Guidance About 10 CFR Part 36 Irradiator Licenses
 - <http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/staff/sr1556/v6/>
- Additional Security Measures

Inspection Process

- Construction and preoperational inspections
 - Results incorporated in license review process
 - Inspection reports publicly available
- If licensed, NRC will conduct periodic inspections
- Performance-based inspections: Focus on the safety and security of the use of nuclear material

NRC Inspection Manual

<http://www.nrc.gov/reading-rm/doc-collections/insp-manual/>

- MC 2815, Construction and Preoperational Inspection of Panoramic, Wet-Source-Storage Gamma Irradiators
- Inspection Procedure 87122, Irradiator Programs
- Temporary Instructions
 - ▶ 2800/034, Inspection of Panoramic and Underwater Irradiators Additional Security Measures
 - 2800/037, Revision 1, Safety Procedures for Panoramic Irradiators

Inspection During Construction Phase

- On-site inspections by health physicists, electrical, structural, and geotechnical engineers
 - Verify pool meets design specifications and integrity
 - Verify design requirements
 - ▶ Evaluate site characteristics
 - Evaluate construction materials
 - Evaluate fabrication of components
 - Evaluate equipment adequacy
 - ▶ Review security measures

Inspections During Preoperational Testing

- Source loading
- Equipment operation
- Radiation surveys
- Dosimetry assessment
- Adequacy of radiation safety procedures
- Adequacy of emergency and security systems procedures

Periodic Operational Inspections

- Health and safety of occupational workers and members of the public
- Protection of the environment
- Security of licensed material

NRC Contacts

- Jack E. Whitten - Chief, Nuclear Materials Licensing Branch, (817) 860-8197, jew1@nrc.gov
- Anthony D. Gaines -Senior Health Physicist/Technical Project Manager, (817) 860-8252, adg1@nrc.gov
- Roberto J. Torres -Senior Health Physicist, (817) 860-8189, rjt@nrc.gov
- Victor Dricks - Public Affairs Officer, 817-860-8128 or 1-800-952-9677, vld@nrc.gov