

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

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Opening Remarks	
■ Please hold questions until later in session	
• Oral or written	
• Oral of written	
Respect each others point of view	
■ Moderator	
Purpose of this Meeting	100000000000000000000000000000000000000
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■ 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	
Dublic meeting notice in NDC's wabaits. Avoust 12, 2005.	
■ Public meeting notice in NRC's website - August 12, 2005	
■NRC press release -August 23, 2005	
Title pross foreuse Trugust 25, 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/hearinglicense-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