

# Licensing Issues at Washington State University

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### History

- March 9, 1961: First criticality as Materials Test Reactor
- 1967: Converted to TRIGA fuel
- 1976: Converted to HEU/LEU
- 2008: Reactor converted to entirely LEU fuel

#### **WSU: HEU to LEU Conversion**

- Conversion SAR submitted August, 2007
- RAI resolution conducted during 2008
- Conversion milestone met September, 2008

#### **Conversion SAR**

# The following were updated as part of the HEU to LEU conversion:

- Reactor Description (Ch. 4)
- Accident Analysis (Ch. 13)
- Technical Specifications (Ch. 14)

#### The License Renewal Process

 WSU submitted Safety Analysis Report (SAR) consistent with NUREG-1537 on June 24, 2002

WSU 2002 SAR was four years in preparation

Essentially stalled since 2002

#### **NUREG-1537**

 NUREG-1537 Parts I & II is a very thorough guidance document

Part I = 521 pages

Part II = 348 pages

Total = 869 pages

 Treats license renewals as new applications: requires a complete rewrite of SAR

#### **SECY-08-161**

- Four issues contributing to license renewal backlog
  - Historic NRC staffing and emergent issues
  - Limited licensee resources
  - Poor existing license infrastructure
  - Regulatory requirements and broad scope of the license renewal process

#### **SECY-09-0095**

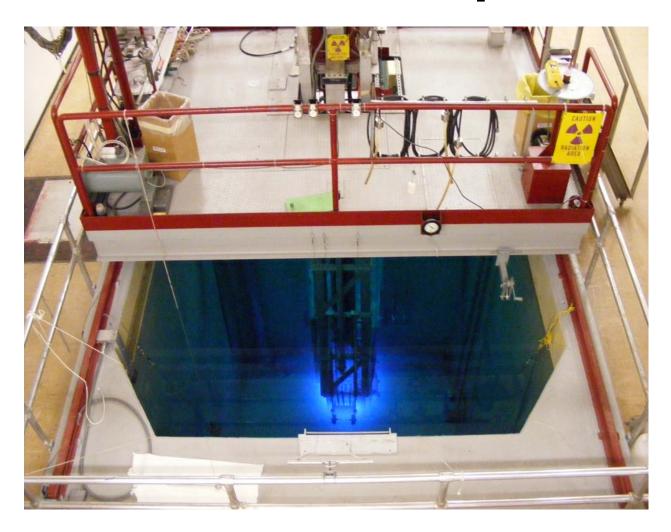
- Describes a graded approach with criterion level set at 2 MW(t)
- For less than 2 MW(t) Interim Staff Guidance (ISG) is focused on
  - Reactor design and operation
  - Accident analysis
  - Technical specifications

#### **Focused Review**

From WSU's perspective, the pertinent information has already been submitted and a Focused Review, in accordance with SECY-09-0095 should center on:

- Reactor Description
- Accident Analysis
- Technical Specifications

## 48 Years of Safe Operation



#### Conclusions

- 48 years of safe operation suggests that ISG in SECY-09-0095 is appropriate
- WSU supports:
  - Focused Review process for RTR less than 2 MW(t)
  - Decoupling NUREG-1537 formatted SAR from license renewal