

# University of Illinois Research and Test Reactor Decommissioning

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# Milestones

- 1988 Reactor Shutdown
- 2004 Fuel Removed
- March 2006 (Rev.1)

## Decommissioning Plan

- June 2007 Final Status Survey Plan
- DP and FSSP approved December 2007

# Schedule

- September 2011 - Project Management Plan and Procedures
- October 2011 - Start Decommissioning
- July 2012 – Complete Physical Decommissioning Work
- October – Submit Final Status Survey Reports to NRC for approval
- January 2013 - License Termination

# Concerns

- Coordination with local officials and organizations
- History of student issues with security fencing during fuel movement

# Facility Exterior



# Reactor



# Coordinated with IEMA to ring air samplers around building





# Cleared rod drives, etc., out of tank





# Bioshield prep for sawing



# Cutting the upper Bioshield



# Tank internals to be removed





# Everything out



# The surprise

- Everything was going along well until they poked a hole in the wall while trying to trace a conduit, and then.....

# Wrapping building for asbestos/vermiculite abatement





# Building Demolition



# U of IL's Lessons Learned

- A lot of homework up front means a smooth D&D – lots of contract detail and available documentation on the facility.
- Never completely believe your blueprints.
- Created a weekly status newsletter with images which was well received.

# Statistics

- 10 months (Oct 2011-July 2012)
- 6 Radioactive waste shipments
  - 277,345 pounds
  - 7004 cubic feet
  - 4.316 Ci activity
- 22 semi's of non-radioactive waste
- 17 trucks/340 cubic yards of asbestos waste
- 2.568 man-rem (DP estimated 8.5)
- \$4.2M budget vs \$4.3M cost

# Closeout Actions

- July 2012 - Inspection with split soil samples
- October 2012 – Final Inspection Report
- November 2012 - Licensee submitted Final Status Survey Reports
- License Termination