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# **Safety Assessments in the U.S. Nuclear Regulatory Commission's Decommissioning Program**

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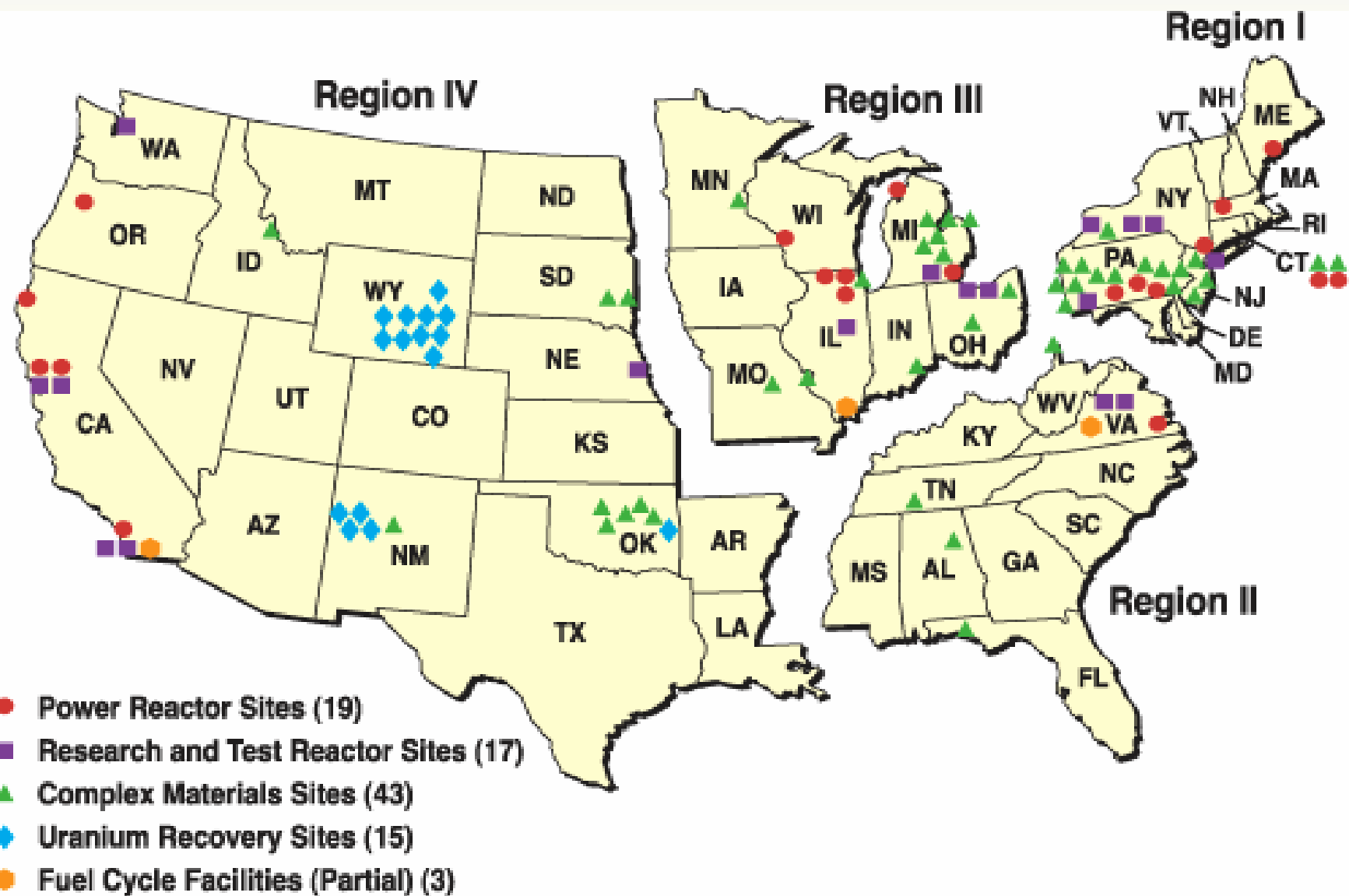


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### **NRC's Complex Site Decommissioning Universe**

- **18 Power Reactors**
- **17 Research and Test Reactors**
- **38 Complex Materials Sites**
- **12 Uranium Recovery Sites**
- **3 Fuel Cycle Sites with Partial Decommissioning**



Source: Status of the Decommissioning Program - 2004 Annual Report (Tables 9-1, 9-2, 10-1, 10-3, and 10-4).

# General Decommissioning Process

## Materials/Fuel Cycle Facilities

### Before Cleanup

- Licensee ceases operations and notifies NRC
- Licensee submits decommissioning plan to NRC for review
- NRC reviews and approves plan, if it is acceptable**

### During Cleanup

- Licensee conducts cleanup work
- NRC conducts inspections

### After Cleanup

- Licensee conducts final status survey
- NRC conducts confirmatory surveys
- NRC approves final status survey report and terminates license

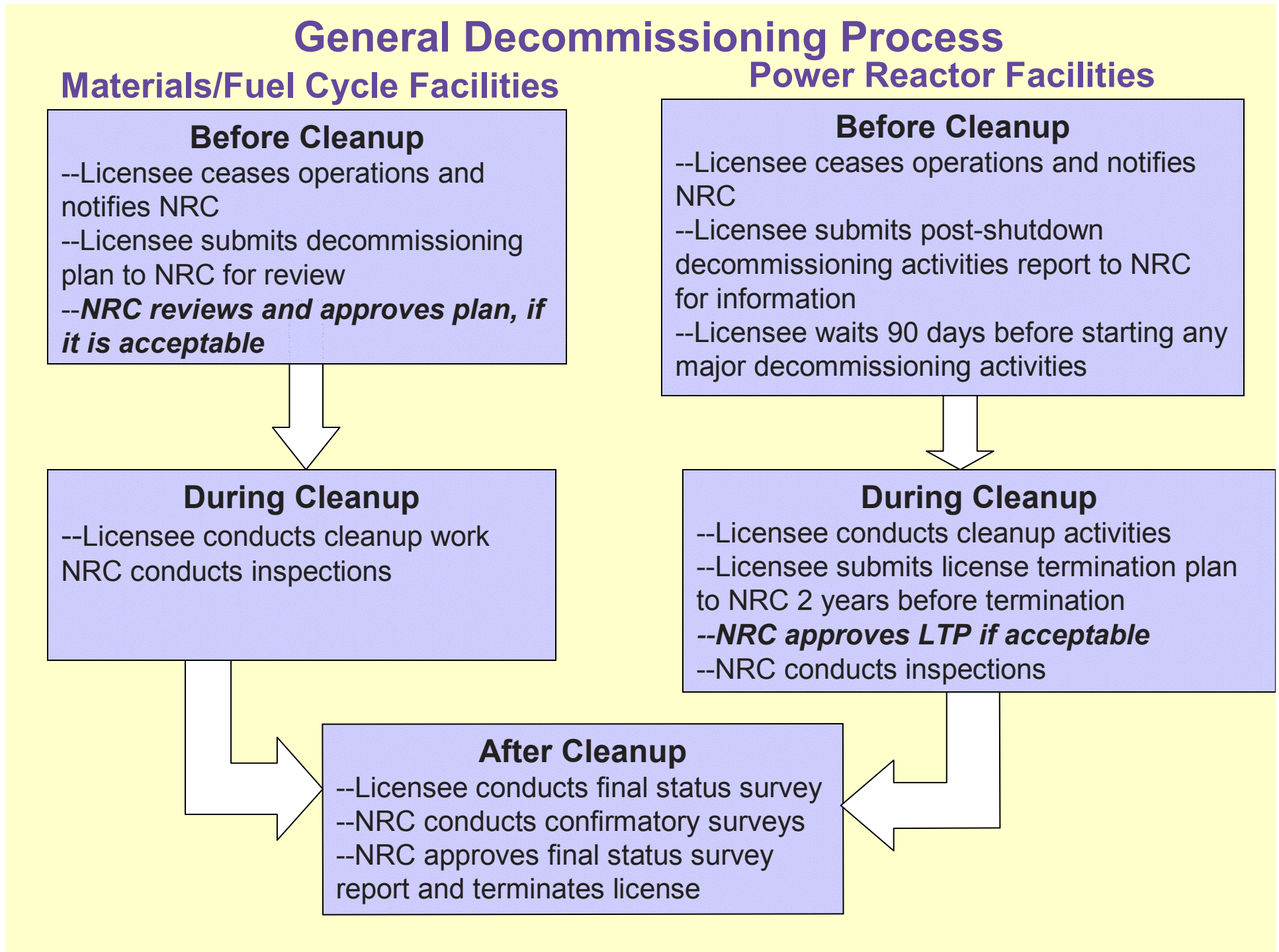
## Power Reactor Facilities

### Before Cleanup

- Licensee ceases operations and notifies NRC
- Licensee submits post-shutdown decommissioning activities report to NRC for information
- Licensee waits 90 days before starting any major decommissioning activities

### During Cleanup

- Licensee conducts cleanup activities
- Licensee submits license termination plan to NRC 2 years before termination
- NRC approves LTP if acceptable**
- NRC conducts inspections





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### **DP/LTP Reviews**

- **Environmental Assessment**
  - **Finding of No Significant Impact**
- **Environmental Impact Statement**
  - **Impacts Mitigation Activities**
- **Safety Evaluation Report**



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### **Safety Evaluation Report**

- **Information provided in DP, LTP or amendment request**
- **NUREG-1757 - Guidance for technical review and report preparation (Appendix G)**
- **Review of proposed approaches, procedures, activities by NRC subject matter experts**
- **Not issued for public comment**



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### **SER Provides Basis for NRC**

- **Requests for Additional Information**
- **Approval of DP, LTP or amendment**



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### More Information

- **Decommissioning Web Page -**  
**<http://www.nrc.gov/what-we-do/regulatory/decommissioning.html>**
- **Sites; regulations and guidance; process; public involvement; key program documents; International aspects; FAQs; Lessons Learned**