

# Status of Decommissioning Licensing and Rulemaking Activities

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## Reactor Decommissioning Transition Overview

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- Power Reactor Shutdowns
- NRC Actions to Address Unplanned Reactor Shutdowns
- Transition Activities from Operating to Decommissioning
- Status of Decommissioning Licensing Reviews
- Lessons Learned
- Decommissioning Rulemaking Activities




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## Power Reactor Shutdowns

- **Unplanned Reactor Shutdowns**
  - **Crystal River Unit 3** - Crystal River, Florida (February 2013)
  - **Kewaunee Power Station** - Kewaunee Wisconsin (May 2013)
  - **San Onofre Nuclear Generating Station, Units 2 & 3** - San Clemente, California (June 2013)
  - **Vermont Yankee Nuclear Power Station** - Vernon, Vermont (December 2014)
- **Planned Reactor Shutdown**
  - **Oyster Creek Nuclear Generating Station** - Forked River, New Jersey (Announced Shutdown for Late 2019)

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## NRC Actions to Address Unplanned Reactor Shutdowns

- Consolidation of Project Management Responsibility
- Formation of Inter-Office Reactor Decommissioning Transition Working Group
- Development of Interim Staff Guidance in Parallel with Ongoing Licensing Reviews
- Identification of Potential Regulatory Improvements and Past Lessons Learned
- Development of Rulemaking and Enhanced Guidance

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## **Transition Activities from Operating to Decommissioning**



- Notification of Permanent Cessation of Operations and Permanent Removal of Fuel from the Reactor
- Submittal of Post Shutdown Decommissioning Activities Report (PSDAR) and Public Meeting
- Inspection Oversight
- Licensing Basis
- Program Oversight Responsibility

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## **Types of Decommissioning Licensing Reviews**



- License Amendments\*
    - Permanently Defueled Technical Specifications
    - Revised Emergency Plan and Emergency Action Level Scheme
  - Exemptions from Title 10 Code of Federal Regulations
    - Emergency Preparedness (Part 50, Appendix E)  
NSIR Interim Staff Guidance
    - Security Plan and Procedures (CFR Part 73)  
NSIR Interim Staff Guidance
    - Decommissioning Trust Fund (CFR 50.82)
    - Insurance and Financial Protection (CFR 50.54 and Part 140)
  - Requests to Rescind or Relax Orders
- \* State and Public Participation

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## Status of Decommissioning Licensing Activities



- Kewaunee
  - Licensing action reviews complete.
  - PM responsibility transferred from NRR to NMSS (March 2015)
- San Onofre Generating Station, Units 2 and 3
  - Licensing action reviews complete.
  - PM responsibility transferred from NRR to NMSS (August 2015)
- Crystal River Unit 3
  - Licensing action reviews complete.
  - PM responsibility transferred from NRR to NMSS (September 2015)
- Vermont Yankee
  - Licensing action reviews in progress.

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## Lessons Learned



- Communications Between NRC, Licensees, State and Local Officials, and Public
- Emergency Preparedness (EP) Exemption and EP/Emergency Action Level Scheme License Amendment Reviews
- Decommissioning Trust Fund

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## Commission Direction on Decommissioning Rulemaking



- **SRM SECY-14-0066**, Commission directed staff to report its views on the need for an integrated rulemaking for decommissioning.
- **SRM SECY-14-0118**, Commission directed staff to complete rulemaking in 2019.
- **SECY-15-0014**, NRC Staff Responded to both SRMs and provided high-level schedule and resource needs.

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## Scope of Decommissioning Rulemaking



- The Commission Directed Staff to Address the Following Issues in the Rulemaking, as Discussed in SECY-00-0145:
  - Graded Approach to Emergency Preparedness;
  - Lessons Learned;
  - NRC Approval of Post-Shutdown Decommissioning Activity Report;
  - Maintaining Three Existing Decommissioning Options and Associated Timeframes;
  - Role of State and Local Governments and Non-Governmental Stakeholders;
  - Other Issues Deemed Relevant by Staff.

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## Milestones Associated with Decommissioning Rulemaking



- Major Milestones
  - Advance Notice of Proposed Rulemaking: Request for Comment (ANPR) (Fall 2015)
  - Draft and Final Regulatory Bases
  - Proposed Rule/Draft Regulatory Guidance
  - Final Rule/Final Regulatory Guidance (to the Commission 2019)

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## Opportunities for Participation



- The NRC is interested in feedback from the State partners, the nuclear industry, and all members of the public:
  - Comment opportunities (ANPR, Draft Regulatory Basis, Proposed Rule)
    - Please also provide comments on cost-benefits
  - Planned public meetings

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# Questions?