Reactors Decommissioning Transition Overview

- Unplanned Reactor Shutdowns and Associated Licensing Issues
- NRC Actions to Transition from Operations to Decommissioning
- Status of Decommissioning Licensing Reviews
- Challenges and Lessons Learned
- Decommissioning Rulemaking Activities
Power Reactor Shutdowns

• Unplanned Reactor Shutdowns
  – Crystal River Unit 3 - Crystal River, Florida (2013)
  – Kewaunee Power Station - Kewaunee Wisconsin (2013)
  – San Onofre Nuclear Generating Station, Units 2 & 3
    - San Clemente, California (2013)
  – Vermont Yankee Nuclear Power Station - Vernon, Vermont (2014)

• Future Planned Reactor Shutdowns
  – James A. FitzPatrick Nuclear Power Plant – Scriba, NY
    (Announced shutdown for late 2016 or early 2017)
  – Pilgrim Nuclear Power Station – Plymouth, MA
    (Announced shutdown by June 2019)
  – Oyster Creek Nuclear Generating Station – Forked River, NJ
    (Announced shutdown for late 2019)

NRC Staff 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
Operations to Decommissioning Transition Activities Overview

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

Transition from Operating to Decommissioning

- License Amendments
  - Permanently Defueled Technical Specifications
  - Revised Emergency Plan and Emergency Action Level Scheme
  - Staffing, Training and Qualifications
- 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
Challenges and Lessons Learned

• 50.54P Security Plan Reviews - Fatigue
• Decommissioning Trust Fund (DTF)
• Degradation of Some Neutron Absorbing Material
• Ongoing Communications Between NRC and Licensees

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.
Scope of Decommissioning Rulemaking

• The Commission Requested 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.

Advance Notice of Proposed Rulemaking

• Published on November 19, 2015, for public comment
• Public meeting (with webinar/teleconference) conducted on December 9, 2015
• Comment period extended on December 28, 2015
  – Closes on March 18, 2016 (120 days total)
Advance Notice of Proposed Rulemaking, Cont’d.

- Seeks specific feedback related to:
  - Application of backfitting protection
  - Decommissioning trust funds
  - Offsite liability protection insurance requirements
  - Cumulative Effects of Regulation
  - Cost-benefit

Milestones Associated with Decommissioning Rulemaking

- Major Milestones
  - Draft and Final Regulatory Bases
  - Proposed Rule/Draft Regulatory Guidance
  - Final Rule/Final Regulatory Guidance
    (to the Commission 2019)
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)
  – Planned public meetings

Questions?