



Crystal River Unit 3 Post-Shutdown Decommissioning Activities Report Public Meeting January 16, 2014

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Washington, D.C. 20555*

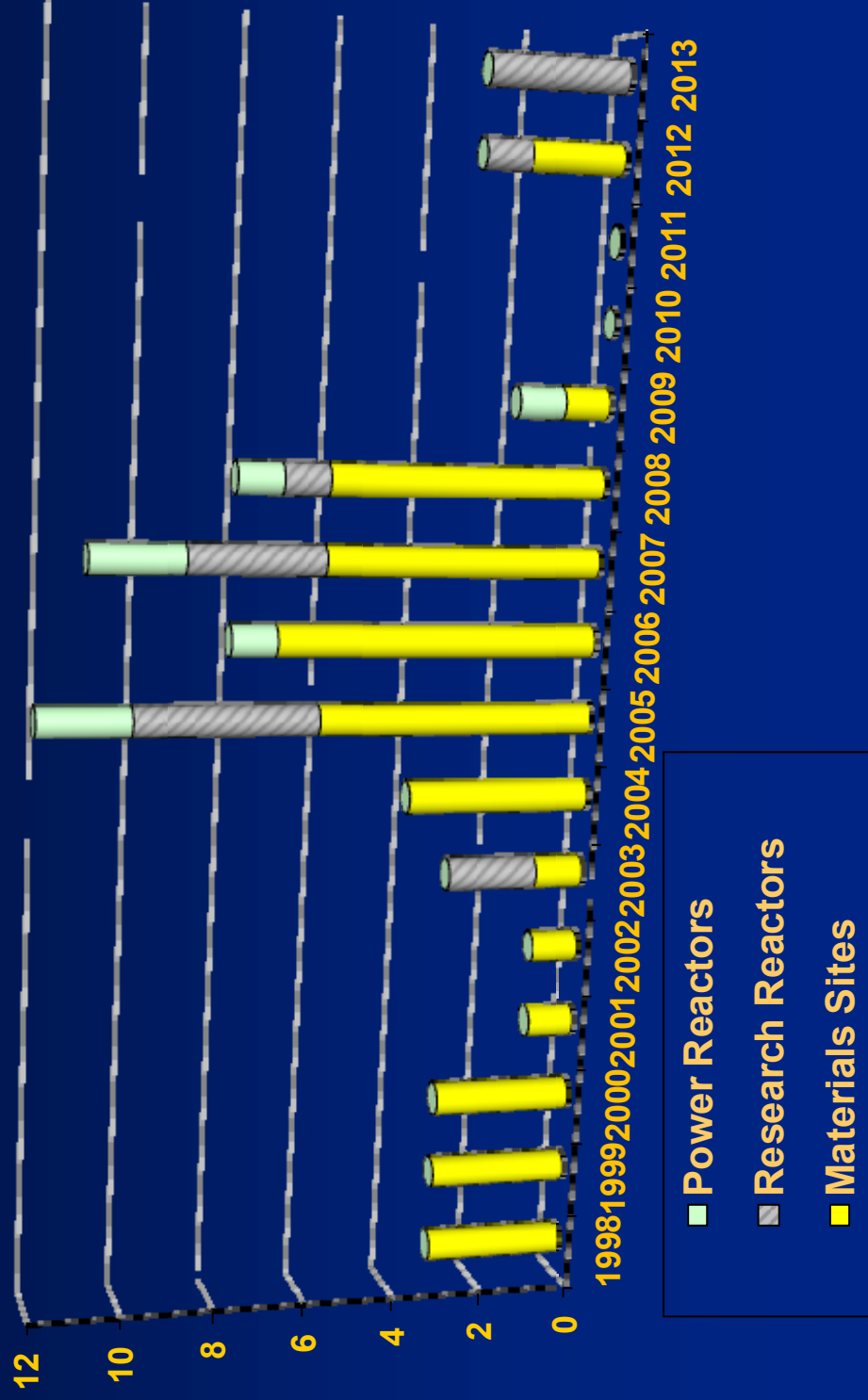
Agenda

- Introductions
- Current Plant Status
- Discuss the NRC Decommissioning Process
- Discuss the Crystal River - 3 Post Shutdown Decommissioning Activities Report (PSDAR)
- Discuss the NRC Inspection Process
- Hear public comments on PSDAR

Meeting Information

- Crystal River NP Training Center/EOF
- Emergency Information/Exits
- Meeting 7 - 9 PM
- PSDAR available in ADAMS
ML13343A183
- CDs available
- We are here to listen to your comments
and answer questions
- Meeting Feedback Forms available

US NRC Decommissioned Facilities





Crystal River Unit 3 PSDAR Public Meeting

Current Plant Status

*Christopher Gratton, NRR
Licensing Project Manager*

Current Plant Status

- Reactor last operated in September 2009
- Final removal of fuel from the vessel occurred in May 2011
- Permanent Cessations of Operations and Permanent Removal of the Nuclear Fuel Certification February 2013
- Decommissioning Licensing Actions
- PSDAR submitted December 2, 2013



Crystal River Unit 3 PSDAR Public Meeting Post-Shutdown Decommissioning Activities Report

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NRC Decommissioning Process

- Permanently cease operations
- Certify permanent cessation of operations
- Certify fuel removed from reactor
- Submit PSDAR (within 2 years)
- SAFSTOR and/or plant decommissioning (60 years to complete radiological decommissioning)
- Application for license termination (LTP)
- License termination

NRC Decommissioning Process

- 60 years to complete decommissioning
- Assumes 50 year SAFSTOR and 10 years to complete Decommissioning
- Radiation dose rates will be 1-2 %
- Radioactive waste volumes will be 10%
- Allows the decommissioning fund to increase

Decision Factors for Licensees in Determining the Decommissioning Strategy

- Multi-Unit Site Safety
- Financial – Decommissioning Funds Availability
- Access to Radioactive Waste Disposal Capacity
- Future use of the Site
- Stakeholders
- New Business Model
- Special Circumstances

PSDAR Requirements

- **10 CFR 50.82(a)(4)**
- **PSDAR describes:**
 - **planned decommissioning activities**
 - **decommissioning schedule**
 - **cost estimate for the decommissioning**
 - **environmental impacts of decommissioning**

PSDAR Review Process

- NRC notices receipt of PSDAR & requests public comments
- NRC schedules PSDAR public meeting
- NRC considers public comments
- Review PSDAR in accordance with Regulatory Guide 1.185
- PSDAR does not require NRC approval

PSDAR Review Criteria

- Decom can be completed as described
- Decom can be completed within 60 years
- Decom can be completed for the estimated cost
- Decom activities do not endanger public health and safety or the environment

PSDAR Highlights

- CR-3 entered Decommissioning status on February 20, 2013
- CR-3 will be maintained in current SAFSTOR mode until decommissioning begins
- CR-3 decommissioning must be complete and license termination will occur in February 2073 (60 years after cessation of operations)
- Decommissioning costs are estimated to be \$861,902,000, (based on 2013 dollars)
- Environmental impacts of planned decommissioning activities are bounded by impacts associated with post-accident cleanup activities and GEIS

Conclusion

- NRC received a PSDAR for CR-3 on December 2, 2013
- Although NRC is not required to approve the PSDAR by regulation, NRC will review the PSDAR
- NRC will consider the public comments in its review of the CR-3 PSDAR



United States Nuclear Regulatory Commission

Protecting People and the Environment

Crystal River Unit 3 PSDAR Public Meeting

Decommissioning Power Reactor Oversight Program

Marc Ferdas

*Chief, Decommissioning & Technical Support Branch
Region I - Division of Nuclear Materials Safety*

Oversight Program

- Oversight program verifies that:
 - (1) spent fuel is safely being stored;
 - (2) decommissioning activities are being conducted safely; and
 - (3) site operations and license termination activities are performed in accordance with federal regulations and licensee commitments.
- Decommissioning power reactor oversight program is described in Inspection Manual Chapter 2561.

Oversight Program

- Decommissioning inspection program includes both core and discretionary inspections.
- Implementation depends on activities being planned or performed.
 - Post-Operation Transition Phase
 - Actively Decommissioning – Fuel in Spent Fuel Pool
 - Actively Decommissioning – No Fuel in Spent Fuel Pool
 - SAFSTOR – Fuel in Spent Fuel Pool
 - SAFSTOR – No Fuel in Spent Fuel Pool
 - Final Surveys Underway

Core Inspection Program

Procedure (IP)	Title
36801	Organization, Management, & Cost Controls at PSRs
37801	Safety Reviews, Design Changes, and Mods at PSRs
40801	Self-Assessment, Auditing, and Corrective Actions
71801	Decommissioning Performance and Status Review at PSRs
62801	Maintenance and Surveillance at PSRs
71714	Adverse Weather Preparations (DRAFT) <i>Previously - Cold Weather Preparations</i>
81XXX	Physical Security Assessment at PSRs
60801	Spent Fuel Pool Safety at PSRs
83750	Occupational Radiation Exposure
83801	Inspection of Final Surveys at PSR
84750	Radwaste Treatment, and Effluent & Environ Monitoring
86750	Solid Radwaste Management & Transportation

Oversight Status

- Crystal River–3 is in the Post-Operation Transition Phase.
- No decommissioning activities are being performed.
- First NRC inspection in accordance with IMC 2561 was performed in October 2013.
 - Site operations were in conformance with federal requirements, licensee commitments, and management controls.
- Continued oversight and monitoring are planned by Region I.

NRC Contacts

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Where to Comment

- **Comment at this public meeting**
- **Federal Rulemaking Website:** www.regulations.gov, search Docket ID **NRC-2013-0283**. Address question to Carol Gallagher at 301-287-3422, e-mail: Carol.Gallagher@nrc.gov.
- **Mail comments to:** Cindy Bladey, Chief, Rules, Announcements, and Directives Branch, Office of Administration, Mail Stop: 3WFN-06-A44M, U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001

CR-3 PSDAR

NRC Public Website: www.nrc.gov

PSDAR ADAMS No. ML13343A183

Public Meeting Feedback Forms