

# **Fort Calhoun Post Shutdown Decommissioning Activities Report Public Meeting**

**May 31, 2017  
Omaha, Nebraska**

**Bruce A. Watson, CHP  
Chief, Reactor Decommissioning Branch  
Office of the Nuclear Material Safety and Safeguards**



# Fort Calhoun PSDAR Public Meeting



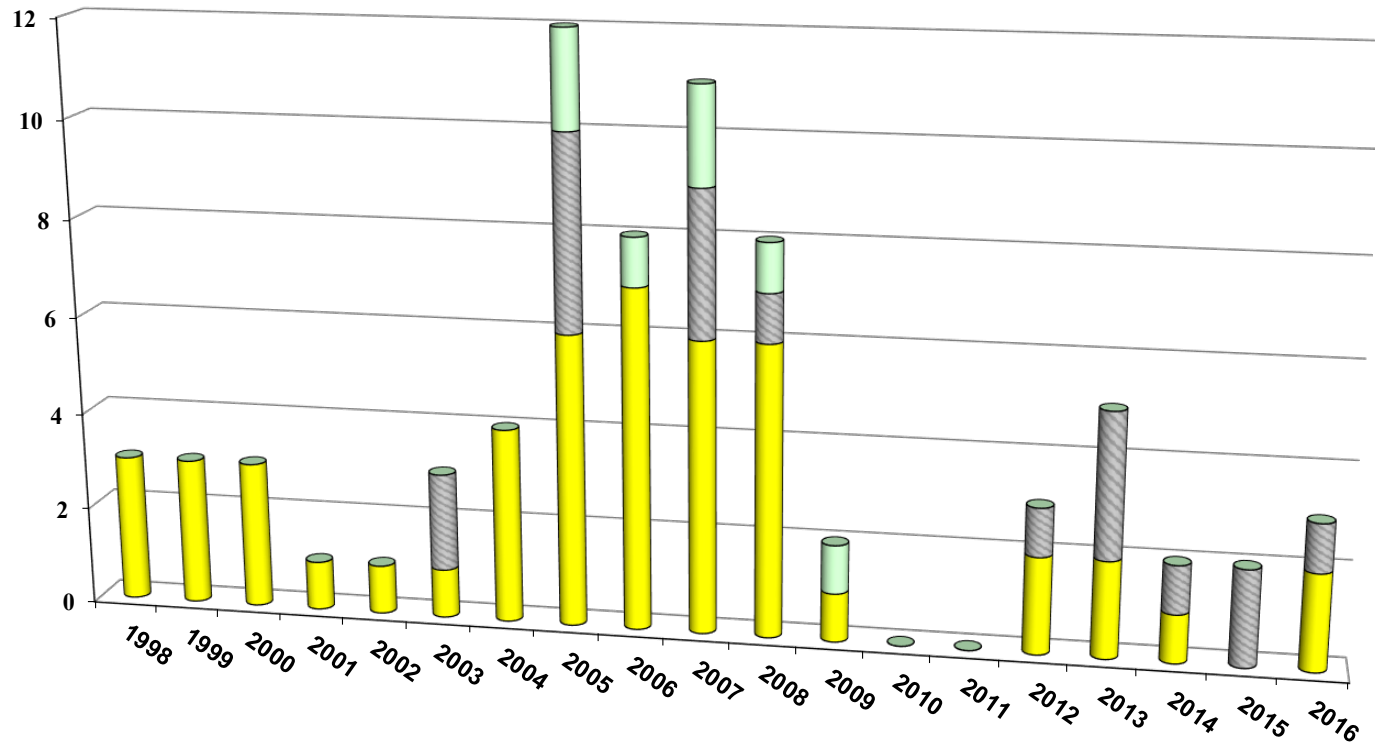
- NRC Category III Public Meeting
- Fire exits
- Meeting Transcription
- Meeting Feedback Forms
- Agenda
- Reactor Decommissioning Process
- OPPD PSDAR
- PSDAR Review Process
- Inspection Program

# NRC Decommissioning Regulations - 1997

- 10 CFR Part 20 Subpart E “License Termination”
- 10 CFR Part 50 – Power Reactor License
- 10 CFR Part 72 – Independent Spent Fuel Storage Installation License (ISFSI)



# 2017 Is the 20th Anniversary of the NRC Decommissioning Regulations



■ Materials Sites   ■ Research Reactors   ■ Power Reactors

# Fort Calhoun

## Decommissioning Milestones

- October 24, 2016 – Fort Calhoun Permanent Cessation of Operation
- November 13, 2016 – OPPD certified FC permanent cessation of operations and the reactor was permanently defueled
- March 30, 2017 – PSDAR submitted
- **April 4, 2017**, the PSDAR was available in ADAMS at **ML17089A759**
- April 14, 2017 NRC issued the public notice for this PSDAR public meeting

# Reactor Decommissioning Options



- **DECON:** Equipment, structures, etc. are promptly removed or decontaminated to a level that permits radiological release (**6** plants in DECON)
- **SAFSTOR:** Plant placed in a safe, stable condition and maintained in that state until it is subsequently decontaminated to levels that permit radiological release (**14** plants in SAFSTOR)
- **Radiological Decommissioning** must be completed within 60 years



# Post Shutdown Decommissioning Activities Report Contents (10 CFR 50.82 – Regulatory Guide 1.185)

- A description and schedule for the planned decommissioning activities
- A site-specific decommissioning cost estimate, including the costs of managing irradiated fuel
- A discussion that provides the means for concluding that the environmental impacts associated with the decommissioning activities will be bounded by appropriately issued Environmental Impact Statements



# Power Reactor Decommissioning Process – Post Shutdown Decommissioning Activities Report

- NRC regulations require that a public meeting be held in the vicinity of the facility to discuss the PSDAR and its contents, as well as to solicit comments
- NRC shall make the PSDAR available for public comment (ADAMS ML )
- NRC does not approve the PSDAR
- Licensee may begin major decommissioning activities 90 days after NRC receives the PSDAR





# **Fort Calhoun PSDAR The NRC Review Process**

**May 31, 2017**  
**Omaha, Nebraska**

**Douglas Broaddus**  
Chief, Special Projects and Process Branch  
Office of the Nuclear Reactor Regulation



# NRC's PSDAR Review Process

- Content requirements in 10 CFR 50.82(a)(4)(i)
- Regulatory Guide 1.185 describes the type of information to be included in a PSDAR
- NRR project manager coordinates technical reviews of the PSDAR
- NRC staff may submit Requests for Additional Information (RAIs)



# NRC's PSDAR Review Process: Evaluation Criteria

- Does the PSDAR contain the information required by regulation?
- Can the decommissioning be completed as described, and within 60 years?
- Can the radiological decommissioning be completed for the estimated cost?
- Do the decommissioning activities endanger public health and safety or the environment?



# NRC's PSDAR Review Process: Decommissioning Cost Estimate



- Site-specific Decommissioning Cost Estimate
  - Reasonable assurance funds are available to perform the radiological cleanup
  - If plans are delayed, ensure licensee has a means of adjusting the cost estimate and funding over the storage period
- Decommissioning Cost Estimate (DCE) and funding level are updated annually

# NRC's PSDAR Review Process: Environmental Review / NEPA



- Reasons for concluding that environmental impacts of site-specific decommissioning activities are bounded by previous Environmental Impact Statement(s)
  - NUREG-0586, “Final Generic Environmental Impact Statement on Decommissioning of Nuclear Facilities”
  - Inspection program



# NRC's PSDAR Review Process

- Review considers public comments
- Staff will notify licensee when no additional information is required
  - NRC does not approve the PSDAR
  - Staff documents NRC review is complete
- Licensee may not begin major decommissioning activities until 90 days after NRC receives the PSDAR, per 10 CFR 50.82(a)(5)



# Comment on the PSDAR

- This public meeting
- Federal Rulemaking Web site:  
<http://www.regulations.gov>  
Search for Docket ID NRC–2017–0099
- By Mail:  
Cindy Bladey  
Office of Administration, Mail Stop: OWFN–12–H08  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555–0001
- Due by July 7, 2017