

# 2017 NSLO Conference

## Reactor Decommissioning Panel



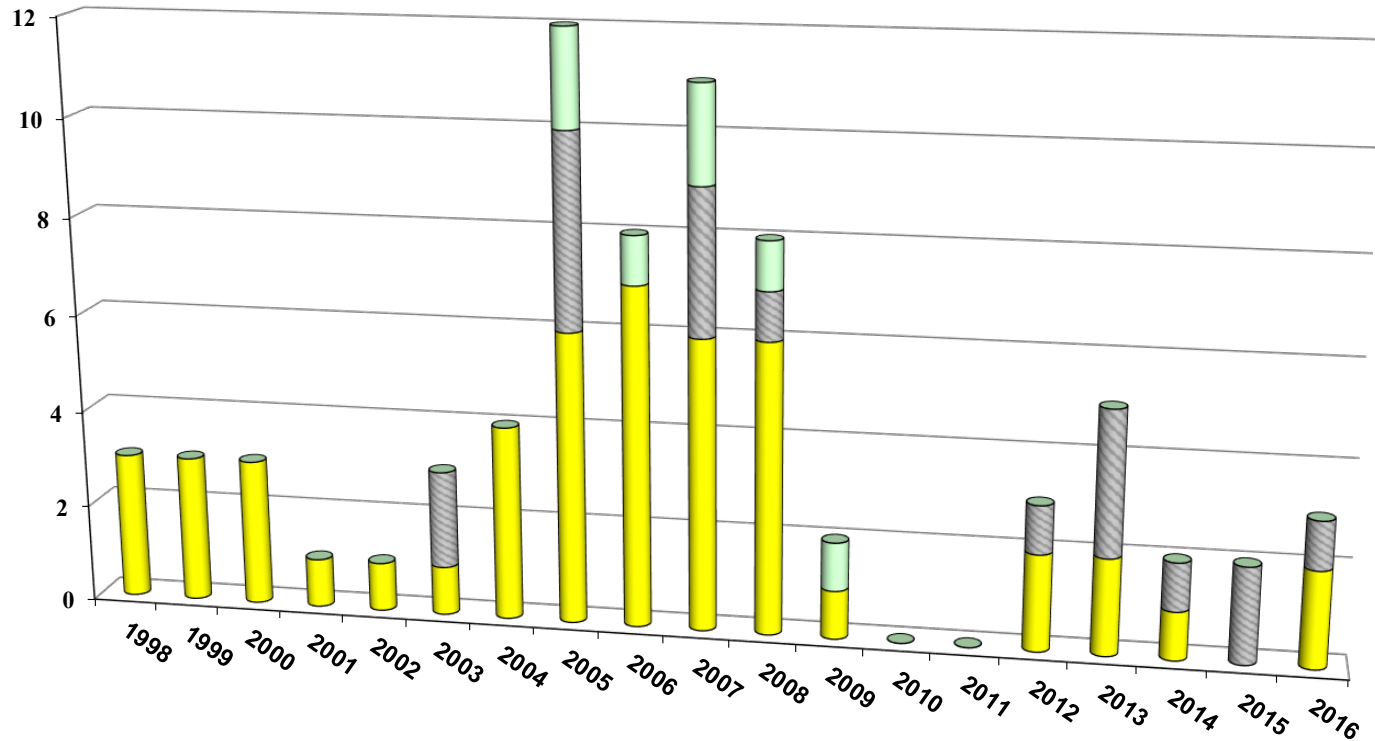
# Overview of the Reactor Decommissioning Program

John Hickman

Reactor Decommissioning Branch



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



■ Materials Sites   ■ Research Reactors   ■ Power Reactors

# Decommissioning Program Regulatory Framework

## Integrated Decommissioning Program

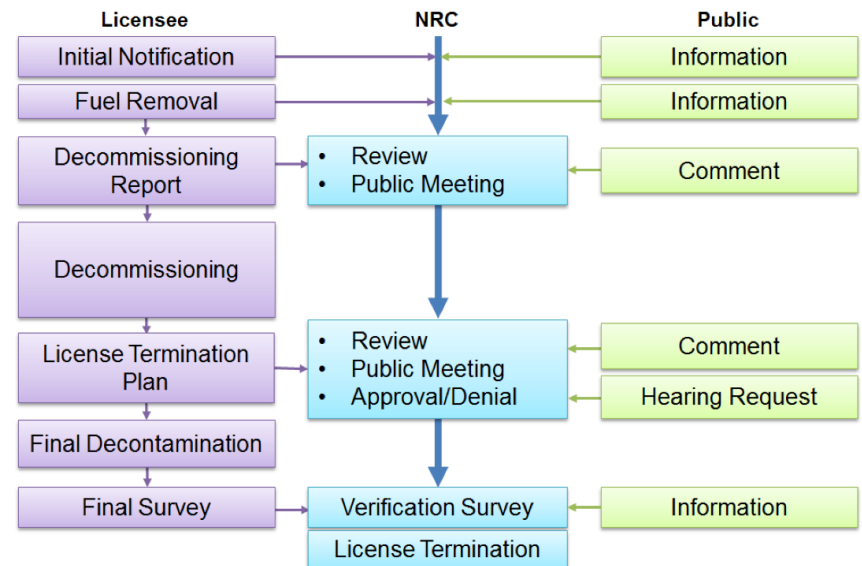
Comprehensive Regulations  
(10 CFR 50.82):

- Public involvement
- Financial assurance
- Site characterization
- Site remediation/Radiological clean-up
- Final site surveys

Regulatory Guidance

Oversight and Inspection

## Decommissioning Process





# Decommissioning Topics of High Public Interest

- Economic losses to the local community
- Community involvement - advisory groups
- Future use of the site
- High-level waste time in storage and transport
- Interim Spent Fuel Storage Installations (ISFSI)
- Reactor decommissioning - timeliness - 60 years to complete
- Reductions in emergency plans
- Decommissioning fund adequacy



# Reactor Decommissioning Program Status

- 10 power reactors have terminated their licenses and have been released for unrestricted use
- 20 power reactors are in decommissioning
  - 6 power reactors in active decommissioning (DECON): Zion 1 & 2 (IL), Humboldt Bay 3 (CA), LaCrosse (WI), and San Onofre 2 & 3 (CA)
  - 14 power reactors in long-term storage (SAFSTOR) with the addition of Fort Calhoun (NE) that ceased operations October 24, 2016
- To date, none of the 30 power reactors that entered decommissioning operated to the end of their license term
- 8 power reactors have announced they will permanently cease operations in next few years:
  - Palisades (MI) in 2018; Pilgrim (MA) and Oyster Creek (NJ) in 2019; Indian Point 2 & 3 (NY) in 2020/2021; Diablo Canyon 1 & 2 (CA) by 2025; and TMI-1

# Summary

- NRC's mission is to ensure plant safety, including safe plant operations, a safe transition from operations to decommissioning, and the completion of radiological decommissioning.
- NRC has a strong decommissioning regulatory framework
- NRC has applied lessons learned
- There are an increasing number of plants entering decommissioning in the U.S.

