Power Reactor Decommissioning Program

Cortlandt Community Unity
Indian Point Task Force Meeting
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The NRC Mission

The NRC’s mission with respect to decommissioning is to ensure a safe transition from operations to decommissioning, and the safe completion of radiological decommissioning.

NRC will continue to license and inspect the plant until the licensee demonstrates that the residual radioactivity meets the license termination criteria and NRC terminates the license.
NRC Decommissioning Experience

- Power Reactors
- Research Reactors
- Materials Sites
Decommissioning Program

Regulatory Framework

Integrated Decommissioning Program

Comprehensive Regulations (10 CFR 50.82):

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

Regulatory Guidance

Oversight and Inspection Program

Decommissioning Process

Licensee

Initial Notification

Fuel Removal

Decommissioning Report

Decommissioning

License Termination Plan

Final Decontamination

Final Survey

Verification Survey

License Termination

NRC

Public

Information

Information

Review

Public Meeting

Comment

Review

Public Meeting

Approval/Denial

Comment

Hearing Request

Information
Reactor Decommissioning Program Status

• Decommissioning Progress:
  • 10 power reactors have terminated their licenses after meeting the NRC’s criteria for unrestricted release
  • 20 power reactors are in decommissioning
  • 8 power reactors have announced they will permanently cease operations in the next few years
  • 4 power reactors will complete decommissioning by 2020

• New trends in decommissioning
  • Business model at Zion and La Crosse Nuclear Power Plants
  • NRC is evaluating the Vermont Yankee sale and license transfer from Entergy to a private company
Shoreham
State University of New York at Buffalo
West Valley Demonstration Project
Indian Point

**Location:** Buchanan, NY (24 miles N of New York City, NY) in [Region I](#)

**Operator:** Entergy Nuclear Operations, Inc.

- **Unit 1** Shutdown in 1974, SAFSTOR
- **Unit 2 Operating License:** Issued - 09/28/1973
  License Expired: 09/28/2013 (timely renewal)
- **Unit 3 Operating License:** Issued - 12/12/1975
  License Expired: 12/12/2015 (timely renewal)
Decommissioning Summary

• There are an increasing number of plants entering decommissioning in the United States, and the NRC is focused on the safe transition of these plants from operation to decommissioning

• The NRC has a strong decommissioning regulatory framework and experienced inspection program

• The NRC’s decommissioning process will be further strengthened by applying lessons learned