

## **NRC PUBLIC MEETING**

# **DIABLO CANYON NUCLEAR POWER PLANT**

# **POST-SHUTDOWN DECOMMISSIONING ACTIVITIES REPORT**

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JULY 21, 2022

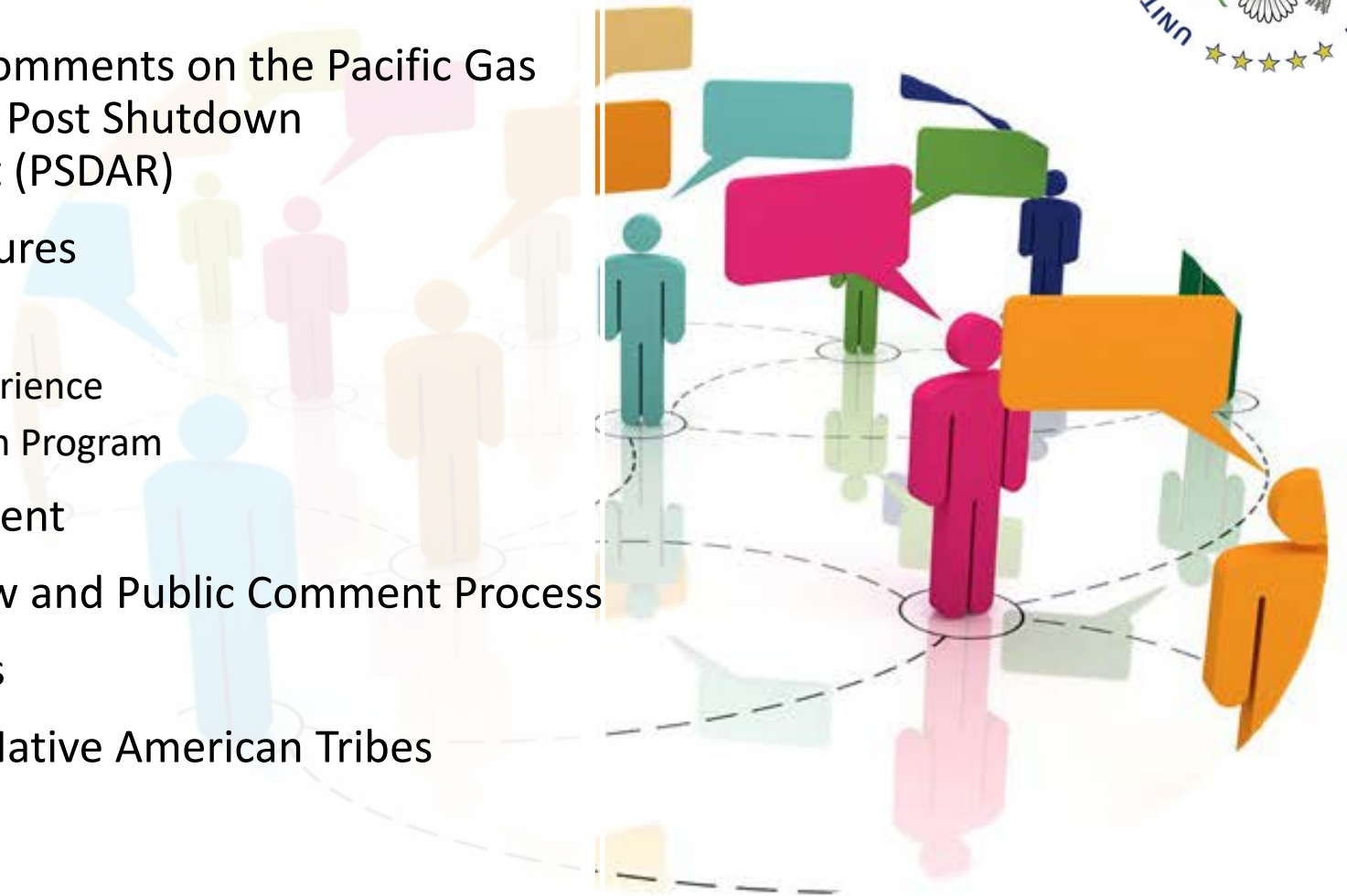
OFFICE OF NUCLEAR MATERIAL SAFETY AND SAFEGUARDS





# MEETING AGENDA

- **Meeting Purpose:** Obtain Public Comments on the Pacific Gas and Electric (PG&E) Diablo Canyon Post Shutdown Decommissioning Activities Report (PSDAR)
- Introductions and Meeting Procedures
- NRC Presentation:
  - Decommissioning Process and Experience
  - Regulatory Oversight and Inspection Program
- PG&E Presentation on PSDAR Content
- NRC Presentation on PSDAR Review and Public Comment Process
- Ground Rules for Public Comments
- Elected, State and Local Officials, Native American Tribes
- Public Comments
- Close Meeting by 9:00 p.m.



# NRC OPERATING AND DECOMMISSIONING STAFF



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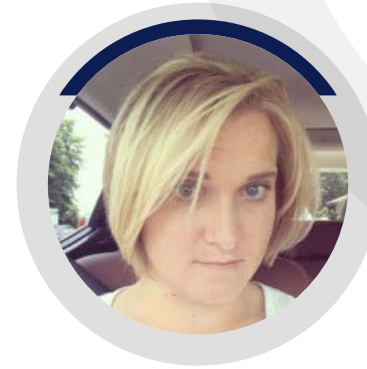
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Licensing (DORL)

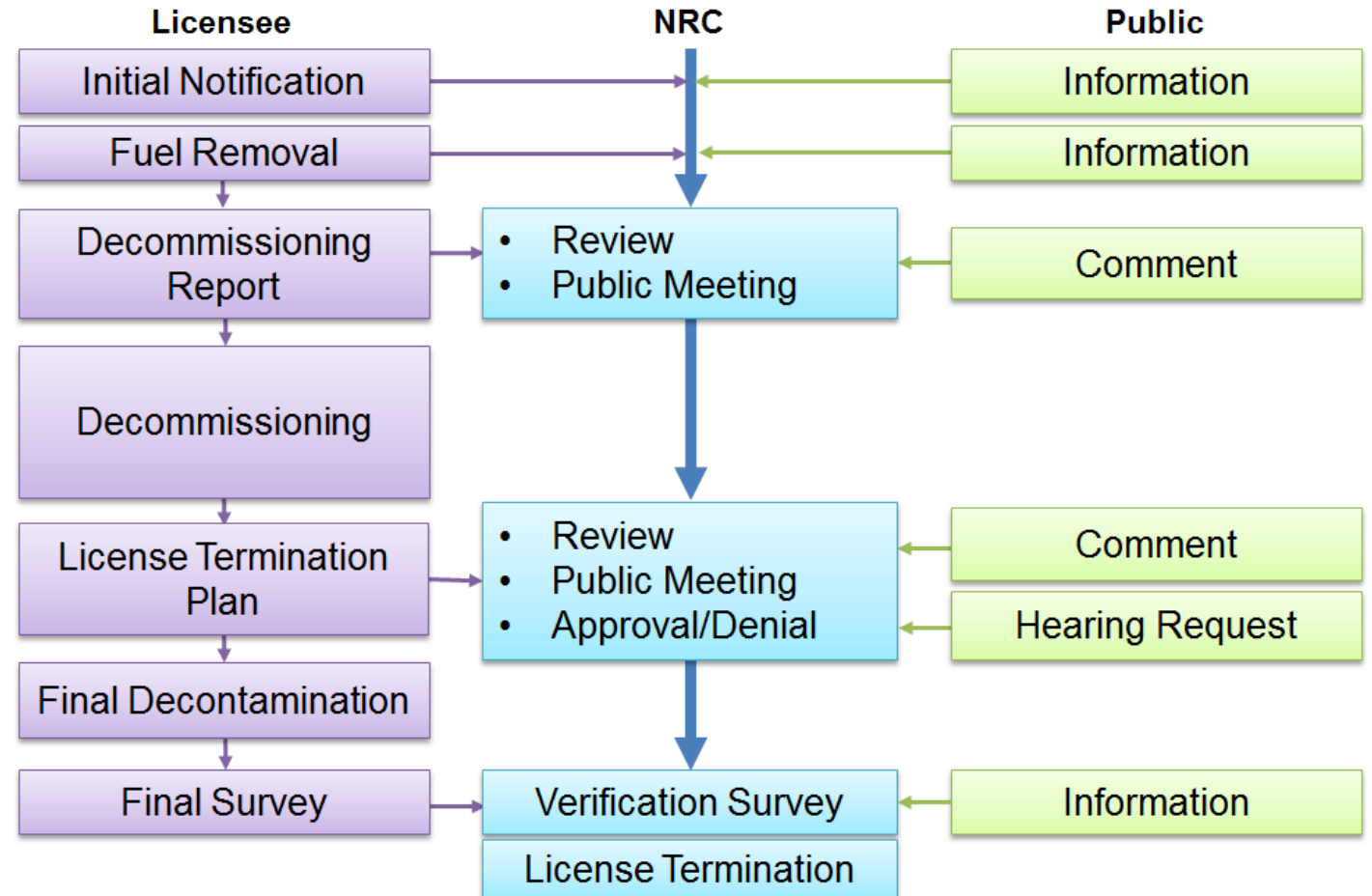
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Phone: 301-415-3168

# DECOMMISSIONING PROGRAM

- Appropriate statutory authority
- Comprehensive regulations include:
  - radiological cleanup criteria
  - public involvement opportunities
  - financial assurance requirements
- Effective decommissioning guidance
- Appropriate levels of oversight throughout decommissioning

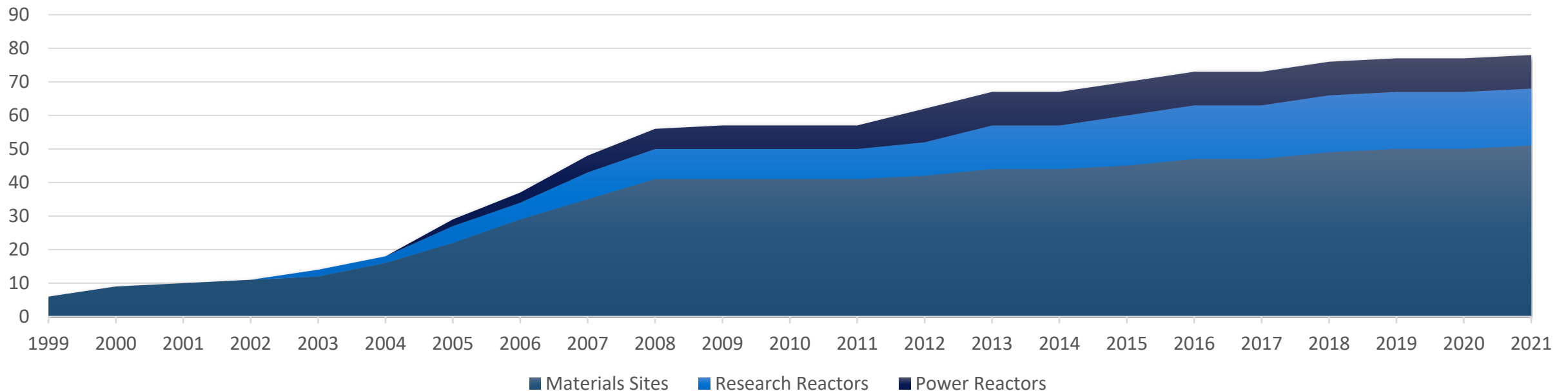
## Reactor Decommissioning Process

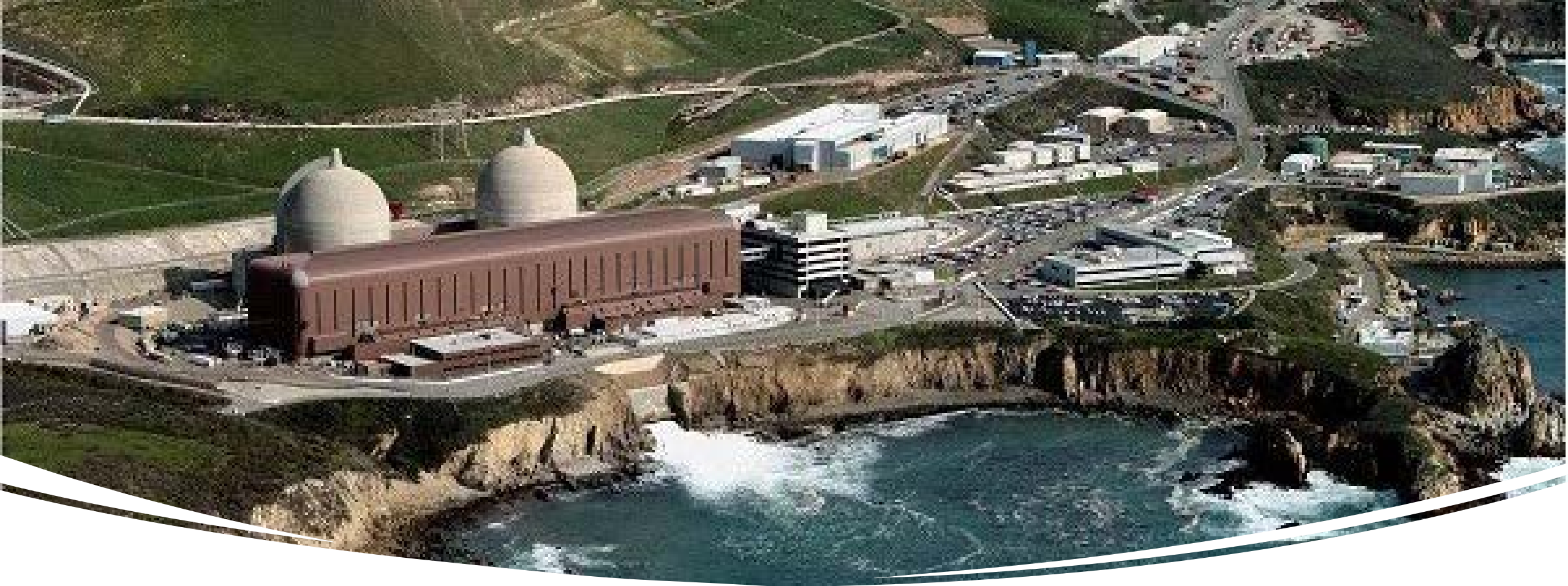


# DECOMMISSIONING EXPERIENCE

- The NRC's current decommissioning regulations are performance-based and risk-informed
- Extensive decommissioning experience
- A total of eleven power reactor sites have completed decommissioning and had the reactor licenses terminated for unrestricted use outside of the dry fuel storage facility

## Completion of Decommissioning by Facility Type (1998-2021)





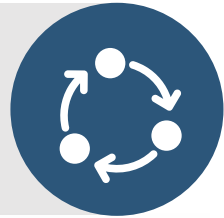
## POWER REACTORS IN DECOMMISSIONING

- 17 reactor units in active decommissioning (DECON)
- 9 reactor units in delayed dismantlement (SAFSTOR)
- Diablo Canyon Nuclear Power Plant, Units 1 and 2, announced plans to shutdown in 2024 and 2025

# COMPLETED REACTOR DECOMMISSIONING PROJECTS IN CALIFORNIA

**HUMBOLDT BAY**

**(License Terminated in November 2021)**

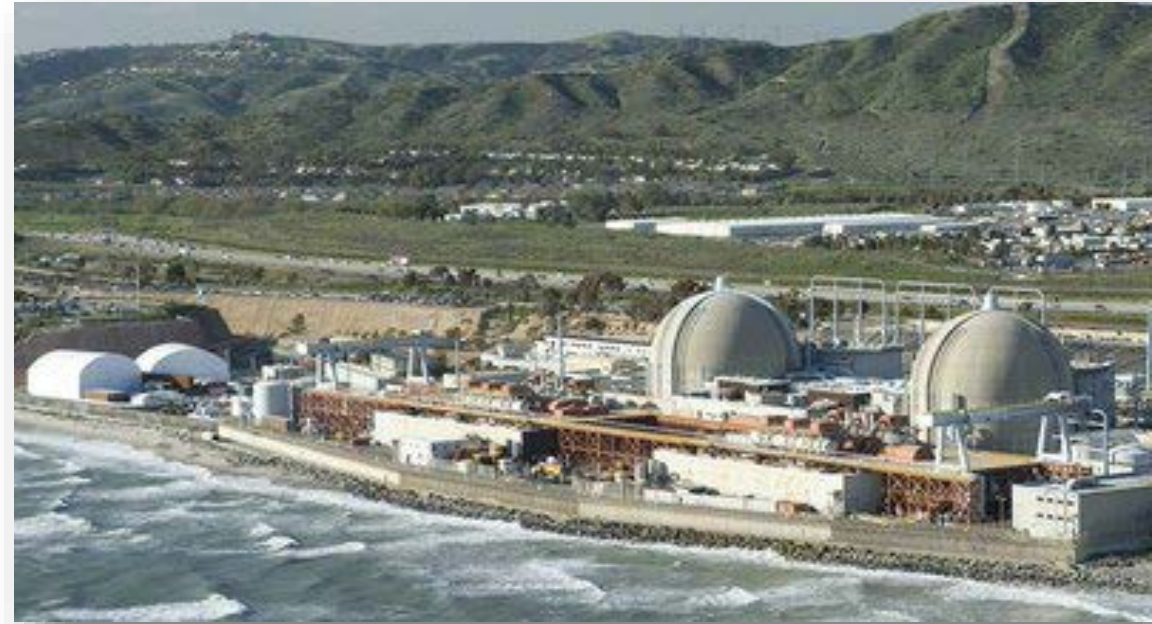


**RANCHO SECO**

**(License Terminated in 2009)**

# CALIFORNIA POWER REACTOR DECOMMISSIONING IN PROCESS

**GE VALLECITOS**  
(Shutdown in 1965 – SAFSTOR)



**SAN ONOFRE**  
(Shutdown in 2013 – DECON)

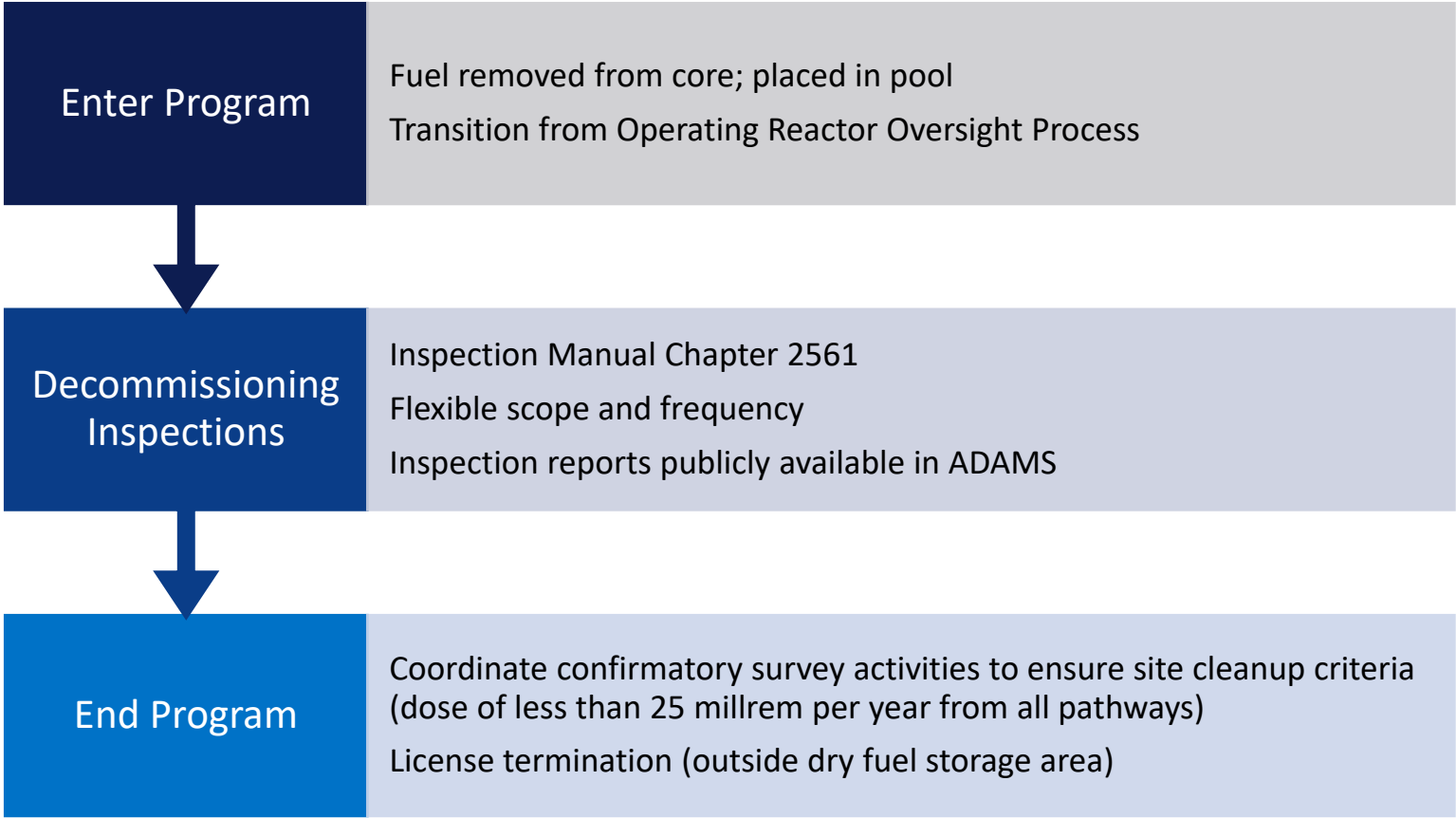


# OBJECTIVES OF THE DECOMMISSIONING INSPECTION PROGRAM

- Oversight and monitoring conducted over the entire period of the decommissioning process
- Objectively verify the safe conduct of decommissioning activities, including dismantlement and decontamination
- Verify adequacy of licensee procedures and controls
- Ensure safety problems and violations are promptly identified and corrected, and effective actions are taken to prevent recurrence
- Examine and address trends in safety performance



# REACTOR DECOMMISSIONING INSPECTIONS

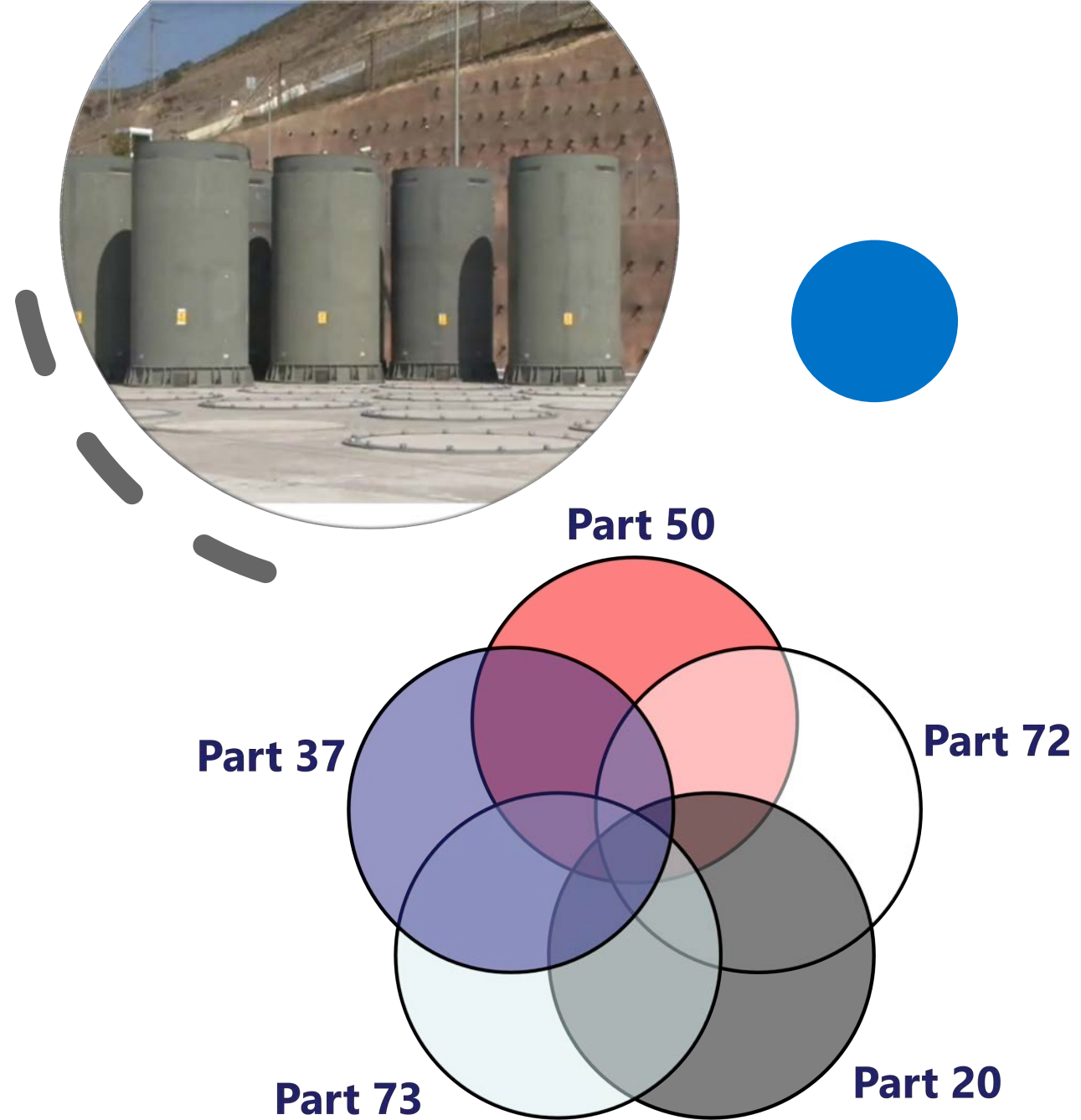


# SPENT FUEL STORAGE FACILITY INSPECTIONS

IMC 2690 – Inspection Program for Dry Storage of Spent Reactor Fuel at Independent Spent Fuel Storage Installations (ISFSI)

NRC inspections performed during:

- onsite fabrication and construction of the ISFSI
- preoperational testing (i.e., dry runs)
- initial fuel loading campaign
- routine ISFSI inspections
- any significant evolutions involving the ISFSI



# PSDAR REQUIREMENTS

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The PSDAR should contain:

- Description of planned decommissioning activities
- High-level schedule considerations
- Site-specific cost estimate for decommissioning
- Discussion of potential environmental impacts of decommissioning
- May contain the irradiated fuel management plan as part of the PSDAR

## POST-SHUTDOWN DECOMMISSIONING ACTIVITIES REPORT

DIABLO CANYON POWER PLANT  
Unit 1 and Unit 2

December 2019  
Pacific Gas and Electric





# CONTENTS OF THE DIABLO CANYON PSDAR

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BRANDY LOPEZ, PACIFIC GAS & ELECTRIC



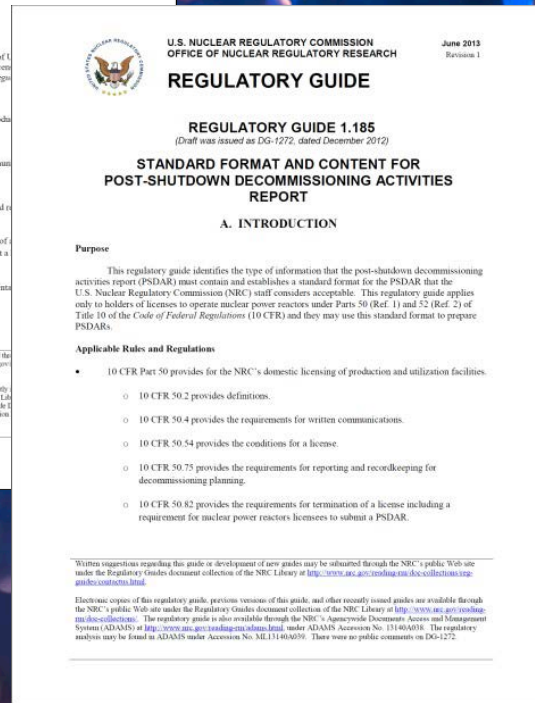
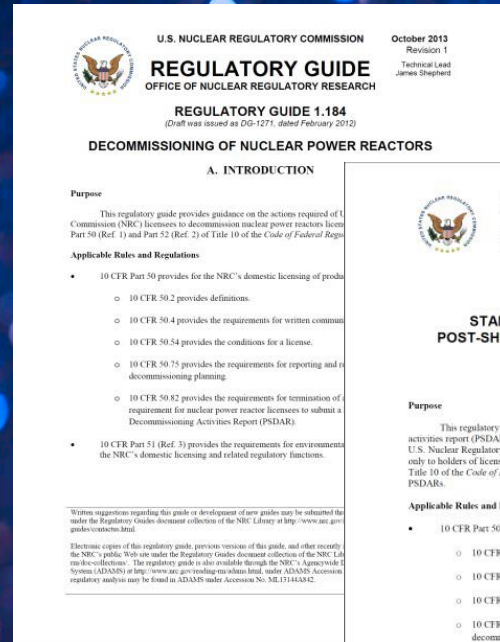
# PSDAR REVIEW PROCESS



## PUBLIC OUTREACH

The NRC notices receipt of the PSDAR in the *Federal Register* and requests public comments

The NRC also schedules a public meeting in the vicinity of the plant to discuss the PSDAR and solicit public comments



## TECHNICAL REVIEW

Technical review of the decommissioning strategy and schedule

Financial review of the decommissioning and spent fuel management funding

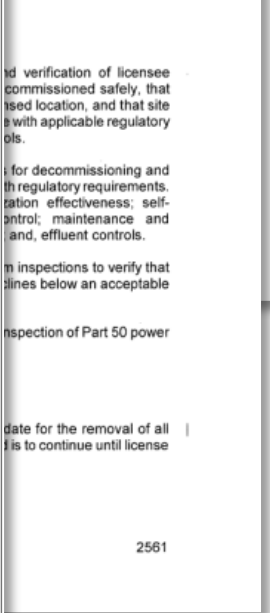
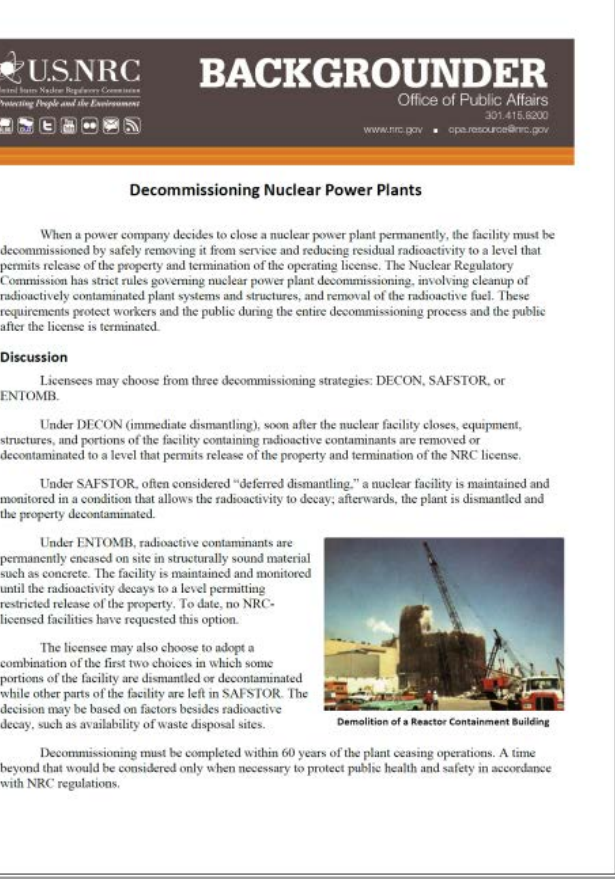
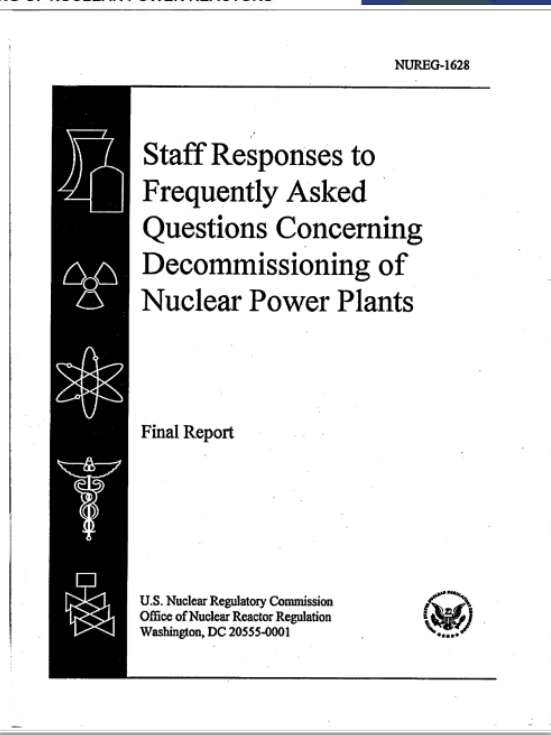
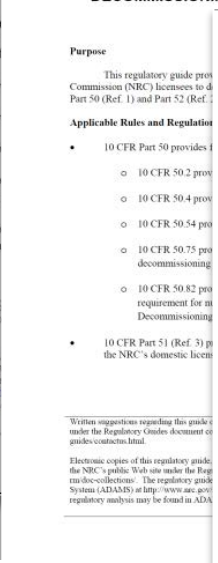
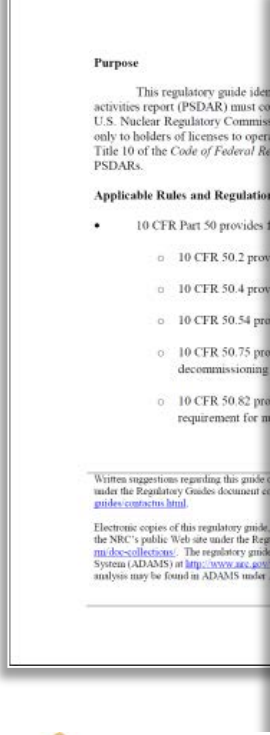
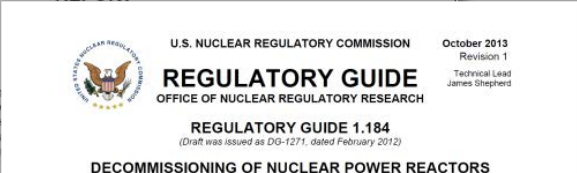
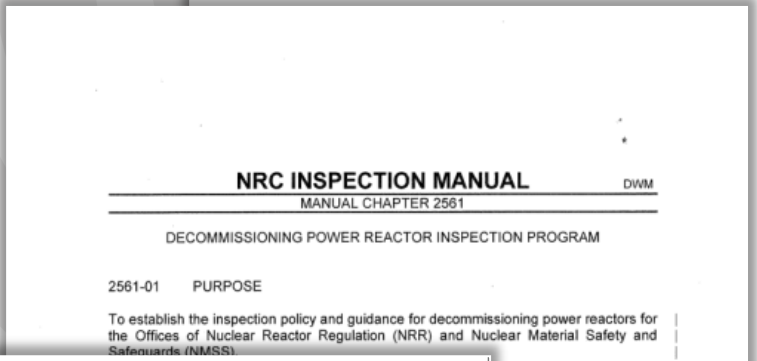
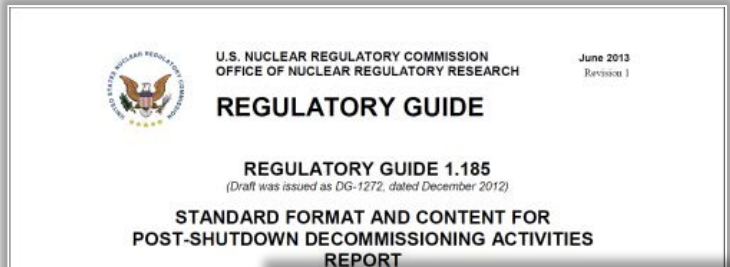
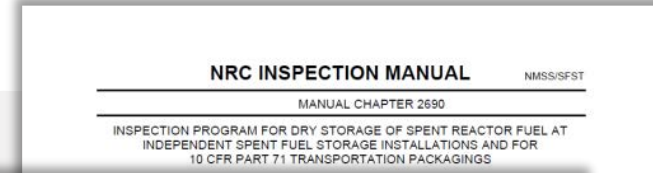
Environmental review for decommissioning the site

# PSDAR QUESTION AND UPDATE PROCESS

- The NRC staff is reviewing the DCNPP PSDAR and will request any additional information needed to conclude that the PSDAR contains the required information
- The PSDAR may be updated as part of the initial review process and will become part of the staff's PSDAR acceptance letter
- Subsequent updates to the PSDAR will be publicly available and provided to the State, but do not require additional acceptance



# NRC DECOMMISSIONING REFERENCES





# LINKS FOR PSDAR AND NRC REFERENCES



- [Diablo Canyon Post-Shutdown Decommissioning Report \(December 2019\)](#)
- [NRC Request for Additional Information \(RAI\) on the Diablo Canyon PSDAR \(February 2020\)](#)
- [PG&E Responses to the Diablo Canyon PSDAR RAIs \(March 2020\)](#)
- [Update to the Diablo Canyon PSDAR \(October 2021\)](#)
- [Regulatory Guide 1.184: Decommissioning of Nuclear Power Reactors](#)
- [Regulatory Guide 1.185: Standard Format and Content for the PSDAR](#)
- [IMC 2561: Decommissioning Power Reactor Inspection Program](#)
- [IMC 2600: Fuel Cycle Facility Operational Safety and Safeguards Inspection Program](#)
- [NRC Information Digest for 2021-2022](#)
- [NUREG-1628: Staff Responses to FAQs Concerning Decommissioning of Nuclear Power Reactors](#)
- [NRC Backgrounder: Decommissioning of Nuclear Power Plants](#)
- [NRC YouTube Video on Decommissioning](#)



# PSDAR PUBLIC COMMENT METHODS

- During this meeting, which is being transcribed
- By mail:
  - Office of Administration
  - Mail Stop: TWFN-7-A60M
  - U.S. Nuclear Regulatory Commission
  - Washington, DC 20555-0001
  - ATTN: Program Management, Announcements and Editing Staff
- Federal Rulemaking website:
  - <http://www.regulations.gov>
  - Search for Docket ID NRC-2022-0132
  - **Comments due by October 19, 2022**



# THANK YOU!



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[HTTPS://WWW.NRC.GOV](https://www.nrc.gov)

# MAKING COMMENTS VIA TEAMS CONNECTION

- Raise your hand to speak

- If you have joined via your computer, please raise your hand to speak by selecting the “raise hand” icon
- If you have joined via phone, please press **\*5 to raise your hand** ; press \*5 again to lower your hand
- Once the Teams facilitator sees a raised hand, your name will be called and your microphone enabled
- If you have joined via phone, it will take about 4 seconds - please stand by for the system to instruct the audience member to press **\*6 to unmute your microphone**
- If possible, please introduce yourself and clearly state your name for the court reporter
- After you are done with the allotted time for comments your microphone will be disabled