



For audio: call 888-790-3403
Participant passcode: 4834368

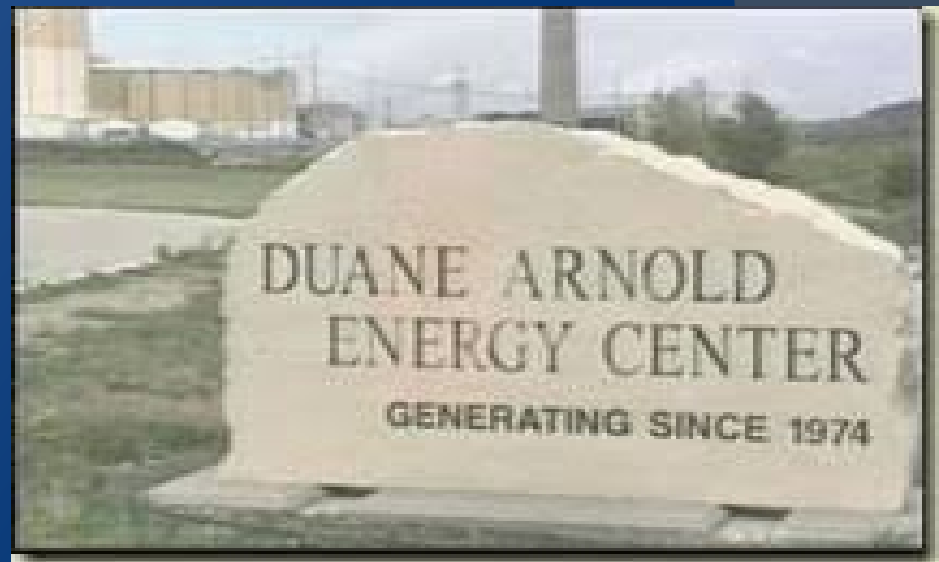
NRC PUBLIC WEBINAR: DUANE ARNOLD POST-SHUTDOWN DECOMMISSIONING ACTIVITIES REPORT OCTOBER 6, 2021

Bruce Watson, CHP

Chief, Reactor Decommissioning
Office of Nuclear Material Safety
and Safeguards

Rhex Edwards

Sr Health Physicist Inspector
Region III Office



Public Meeting Agenda

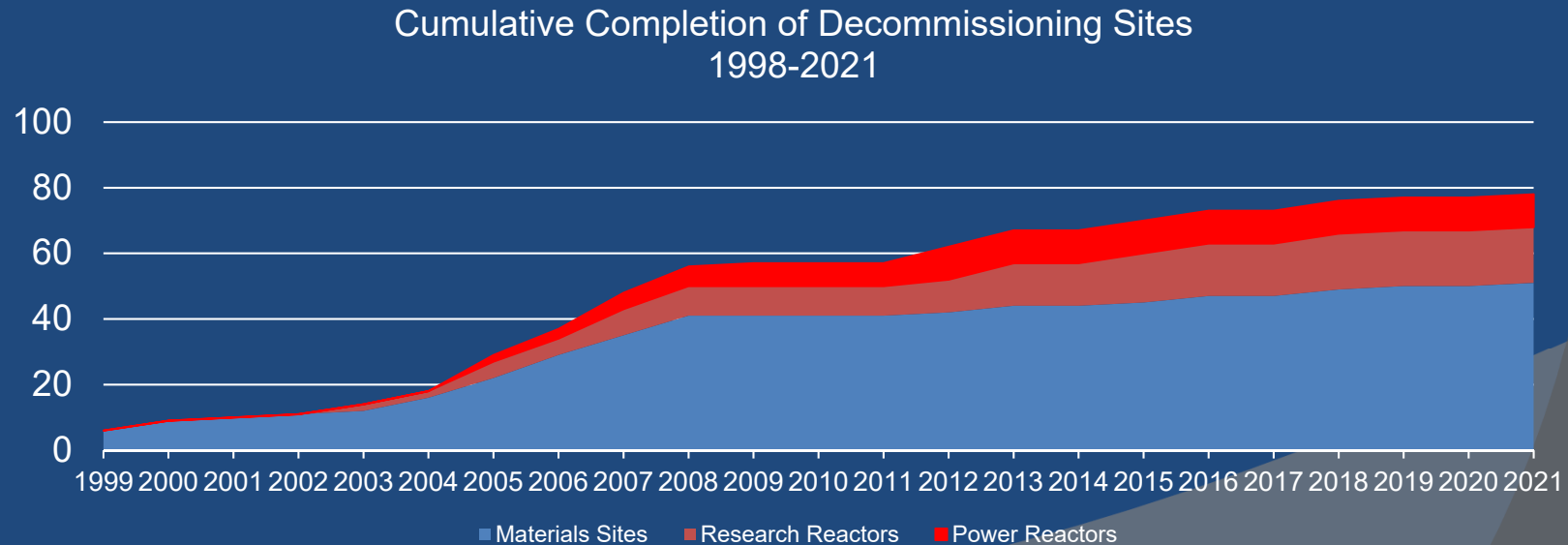
- ⦿ Purpose: To obtain comments on NextEra's Duane Arnold Post Shutdown Decommissioning Activities Report
- ⦿ Meeting Procedures
- ⦿ Introductions
- ⦿ NRC presentation
- ⦿ Ground Rules
- ⦿ Elected, State and Local Officials, Native American Tribes
- ⦿ Public Comments
- ⦿ Close the Meeting at 7:00pm CDT

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Decommissioning Experience

- ❖ The NRC's current decommissioning regulations are performance-based and risk-informed
- ❖ Extensive decommissioning experience
- ❖ A total of 10 power reactor sites have completed decommissioning and had the reactor licenses terminated for unrestricted use

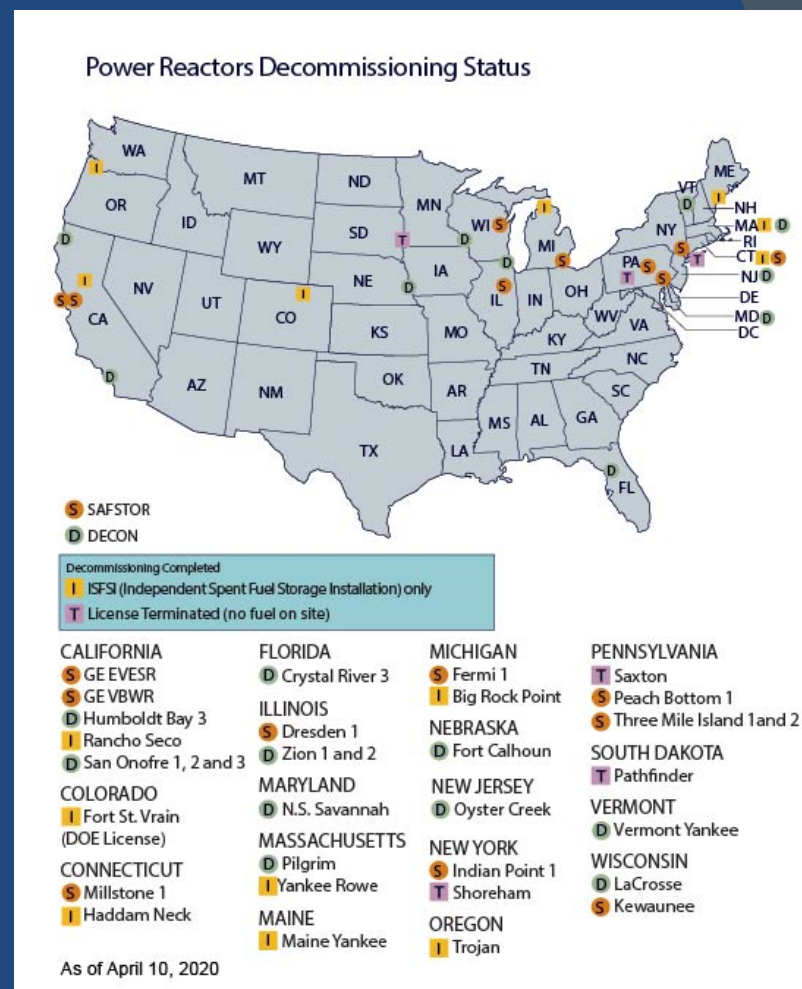


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Power Reactors in Decommissioning

- 17 units in active decommissioning
- 9 units in SAFSTOR including **Duane Arnold**



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NRC Inspection Program

IMC 2561 – Decommissioning Power Reactor Inspection Program

- Core inspections – Appendix A
- Discretionary inspection – Appendix B
- Frequency of inspections – dependent on licensee activities
- Inspections performed by Region III Decommissioning Inspectors are supplemented as needed by specialists



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Spent Fuel Storage Inspections

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

Inspections performed:

- on-site fabrication and construction for ISFSI
- pre-operational testing
- initial fuel loading
- routine ISFSI inspections



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Duane Arnold History



- ❑ **Feb 22, 1974** — Operating license issued for Duane Arnold Energy Center
- ❑ **Dec. 16, 2010** — License Renewed
- ❑ **August 10, 2020** — permanently ceased operations

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NextEra Energy Submittals:

- ❑ Certified permanent cessation of operations
- ❑ Certified permanent removal of fuel from reactor
- ❑ Post-Shutdown Decommissioning Activities Report (PSDAR) submitted April 2, 2020



ADAMS Accession No. ML20094F603

Supplemented February 2021 - ML21036A160

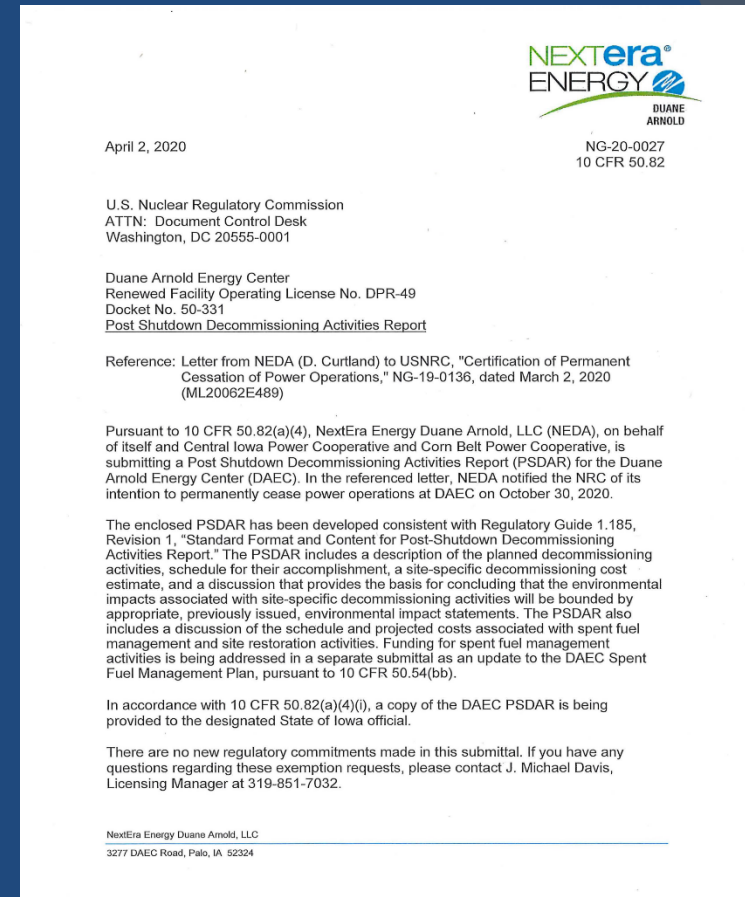
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Post-Shutdown Decommissioning Activities Report (PSDAR)

It should contain:

- ❑ Description of planned decommissioning activities
- ❑ High-level schedule of planned decommissioning activities
- ❑ Site-specific cost estimate for the decommissioning
- ❑ Environmental impacts of decommissioning

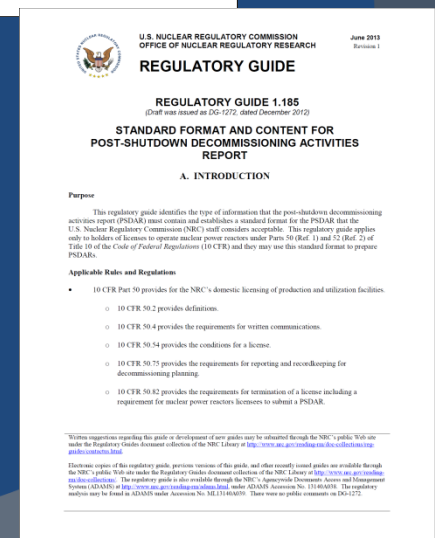
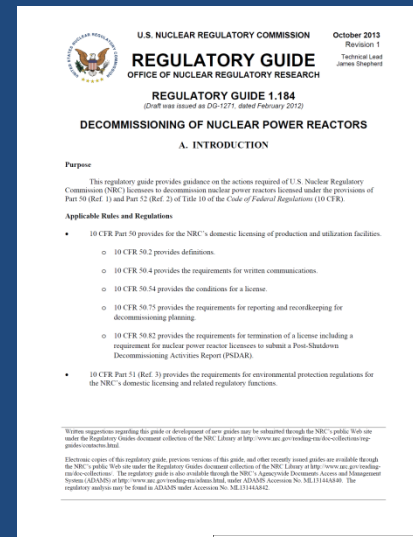


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PSDAR Review Process

- ❑ Normally, the NRC notices receipt of the PSDAR in the *Federal Register* and requests public comments
- ❑ It also schedules a public meeting to discuss PSDAR & solicit public comments



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Duane Arnold Decommissioning Schedule

- ❑ Permanently Ceased Operations in August 2020
- ❑ Prepare the plant for SAFSTOR and transfer spent fuel to dry storage by 2023
- ❑ Spent Fuel to DOE by 2059
- ❑ Complete Radiological Decommissioning by 2080

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Duane Arnold Decommissioning Cost Summary

2019 PSDAR Cost Estimate

- ✓ Decommissioning Trust Fund Balance
\$ 568 M (2018 Dollars)
- ✓ Estimated cost to complete Radiological
Decommissioning
\$724 M in (2018 Dollars)

March 2021 Annual DTF Report

- ✓ 2020 Decommissioning Trust Fund Balance
~ \$633 M
- ✓ 2020 Estimated cost to complete Radiological
Decommissioning \$747 M (2020 Dollars)

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NRC Oversight Continues Until the NRC License is Terminated

- ⦿ The NRC will continue licensing activities at the site to ensure the safety requirements are maintained
- ⦿ The NRC will continue inspections of the facilities, commensurate with the safety risks and activities

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NRC's PSDAR Review Process

- Technical review of the decommissioning strategy and schedule
- Financial review of the decommissioning and spent fuel trust funding
- Environmental review to ensure planned decommissioning strategies will be bounded by existing environmental reports

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Duane Arnold PSDAR Comments

- ⦿ This public meeting
- ⦿ 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-2020-0148**
 - **Due by December 20, 2021**

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Thank You

- ◉ We are here to listen to your comments on the Duane Arnold PSDAR
- ◉ The meeting is being transcribed and will be publicly available
- ◉ A meeting summary will also be published and will be publicly available
- ◉ The NRC staff will do our best to answer your questions
- ◉ Elected Officials and Native American Tribes
- ◉ Public Comments

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Duane Arnold PSDAR Public Meeting
October 6, 2021

Questions?

Contact David McIntyre,
Office of Public Affairs

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301-415-8206

For audio

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