

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

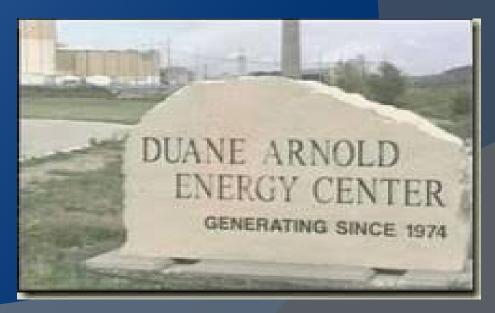
NRC PUBLIC WEBINAR: DUANE ARNOLD POST-SHUTDOWN DECOMMISSIONING ACTIVITIES REPORT OCTOBER 6, 2021

Bruce Watson, CHP

Chief, Reactor Decommissioning Office of Nuclear Material Safety and Safeguards

Rhex Edwards

Sr Health Physicist Inspector Region III Office



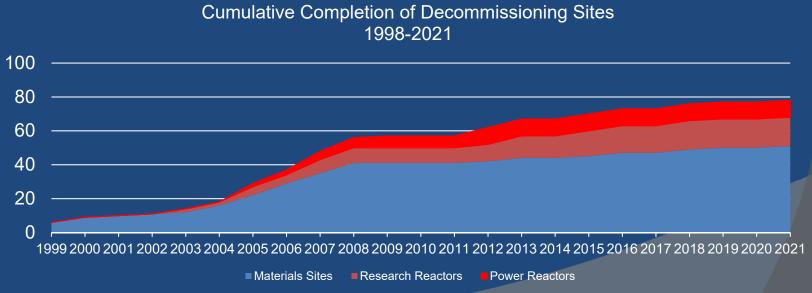
Public Meeting Agenda

- 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 performancebased 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 DuaneArnold



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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







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, 2020permanently 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



April 2, 2020

NG-20-0027 10 CFR 50.82

U.S. Nuclear Regulatory Commission ATTN: Document Control Desk Washington, DC 20555-0001

Duane Arnold Energy Center Renewed Facility Operating License No. DPR-49 Docket No. 50-331 Post Shutdown Decommissioning Activities Report

Reference: Letter from NEDA (D. Curtland) to USNRC, "Certification of Permanent Cessation of Power Operations," NG-19-0136, dated March 2, 2020 (ML20062E489)

Pursuant to 10 CFR 50.82(a)(4), NextEra Energy Duane Arnold, LLC (NEDA), on behalf of itself and Central lowa Power Cooperative and Corn Belt Power Cooperative, is submitting a Post Shutdown Decommissioning Activities Report (PSDAR) for the Duane Arnold Energy Center (DAEC). In the referenced letter, NEDA notified the NRC of its intention to permanently cease power operations at DAEC on October 30, 2020.

The enclosed PSDAR has been developed consistent with Regulatory Guide 1.185, Revision 1, "Standard Format and Content for Post-Shutdown Decommissioning Activities Report." The PSDAR includes a description of the planned decommissioning activities, schedule for their accomplishment, a site-specific decommissioning cost estimate, and a discussion that provides the basis for concluding that the environmenta impacts associated with site-specific decommissioning activities will be bounded by appropriate, previously issued, environmental impact statements. The PSDAR also includes a discussion of the schedule and projected costs associated with spent fuel management and site restoration activities. Funding for spent fuel management activities is being addressed in a separate submittal as an update to the DAEC Spent Fuel Management Plan, pursuant to 10 CFR 50.54(bb).

In accordance with 10 CFR 50.82(a)(4)(i), a copy of the DAEC PSDAR is being provided to the designated State of Iowa official.

There are no new regulatory commitments made in this submittal. If you have any questions regarding these exemption requests, please contact J. Michael Davis, Licensing Manager at 319-851-7032.

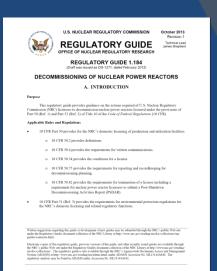
NextEra Energy Duane Arnold, LLC 3277 DAEC Road, Palo, IA 52324

For audio: call 888-790-3403



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





U.S. NUCLEAR REGULATORY COMMISSION OFFICE OF NUCLEAR REGULATORY RESEARCH

Revision I

REGULATORY GUIDE 1.185

STANDARD FORMAT AND CONTENT FOR POST-SHUTDOWN DECOMMISSIONING ACTIVITIE

A. INTRODUCTION

Purpos

This regulatory good selectifies the type of information that the post-shuftdown decommissioning activities report (FSDAR) must contain and establishes a sundand former for the FSDAR that the U.S. Nuclear Regulatory Commission (NRC) staff considers acceptable. This regulatory good applies only to helders of formers to operate meter power reactors under Parts 6 (Ref. 2) and 5 (Ref. 2) of Title 10 of the Code of Forleral Regulations (10 CFR) and they may use this standard format to prepare PSDARs.

Applicable Rules and Regulation

- 10 CFR Part 50 provides for the NRC's domestic licensing of production and utilization face
 - 10 CFR 50.2 provides definitions.
 - 10 CFR 50.4 provides the requirements for written communication.
 - 10 CFR 50.34 provides the conditions for a license.
 - 10 CFR 30.75 provides the requirements for reporting and recordiceping for decommissioning planning.
 - 10 CFR 50.82 provides the requirements for termination of a license including a requirement for nuclear power reactors licensees to submit a PSDAR.

ritten suggestions regarding this guide or development of new guides may be submitted through the NEC's public Web site identifies Regulatory Guides document collection of the NEC Library at <a href="https://www.nec.gov/reading-rm/doc-collections/reg-library-contrast-library-c

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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: https://www.regulations.gov
 - Search for Docket ID NRC-2020-0148
 - Due by December 20, 2021

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



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

For audio: call 888-790-3403



Duane Arnold PSDAR Public Meeting October 6, 2021

Questions?

Contact David McIntyre,
Office of Public Affairs

David.McIntyre@nrc.gov 301-415-8206

For audio

Dial-in number: 888-790-3403

Participant passcode: 4834368