

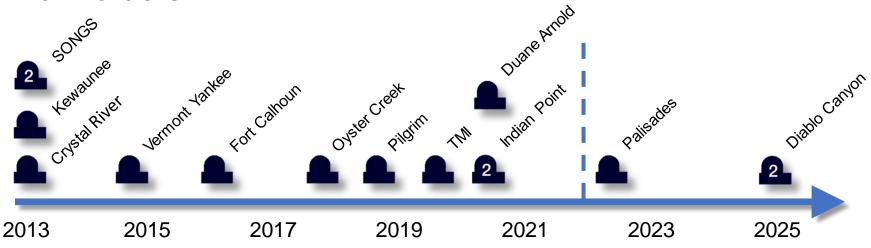
Decommissioning Rulemaking

Presentation for the State Liaison Officer Conference

March 23, 2022

Recent and Planned Shutdowns

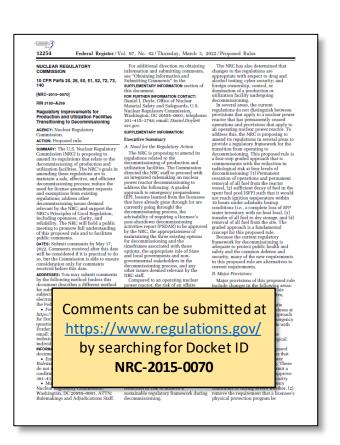
- Factors affecting licensees' decisions
 - Market factors resulting in a decline in power prices
 - Increasing plant modification, maintenance, and repair costs
- Requests for license amendments, regulatory exemptions, and relief from orders





The NRC is seeking public comment on a proposed rule for decommissioning nuclear facilities

- The proposed rule would implement specific regulatory requirements for different phases of the decommissioning process consistent with the reduced radiological risk.
 Topics include:
 - Emergency preparedness
 - Decommissioning funding assurance
 - Environmental considerations
 - Spent fuel management planning
 - Record retention requirements
- Proposed rule published March 3, 2022 (87 FR 12254)
- Four draft regulatory guides available for comment in parallel with the proposed rule
- Comment period is open until May 17, 2022





Graded Approach

Docketing of Permanent Cessation of 10 CFR 50.82/ All Fuel in Dry Cask **Operations All Fuel Offsite** 10 CFR 52.110 + 10 Months (BWR) or Storage Certifications 16 Months (PWR) LEVEL 1 LEVEL 2 LEVEL 3 **LEVEL 4 Emergency Preparedness Permanent or interim Permanently Defueled ISFSI Only** Post-Shutdown waste storage available **Emergency Plan Emergency Plan Emergency Plan** (PSEP) (PDEP) (IOEP) Allows for certain physical Can transition from security plan changes 10 CFR 73.55 to **Physical Security** without prior NRC approval 10 CFR 73.51 requirements Removal of cyber security **Cyber Security** requirements Onsite/Offsite Insurance **Reduction of onsite** insurance to \$50 million **Reduction of offsite** insurance to \$100 million



Proposed Rule and Related Documents

Proposed Rule

- Citation: 87 FR 12254 (March 3, 2022)
- Web version
- Printed version

Supporting & Related Material

- Draft Regulatory Analysis (<u>ML22019A132</u>)
- Draft Environmental Assessment (ML22019A140)
- Draft Supporting Statements for Information Collections (ML18039A192)
- Unofficial Redline Rule Text (ML22032A001)



Guidance Documents

- DG-1346 Rev. 1 (Proposed New RG 1.235) Emergency Planning for Decommissioning Nuclear Power Reactors (ML21347A046)
- DG-1347 Rev. 1 (Proposed RG 1.184 Rev. 2)
 Decommissioning of Nuclear Power Reactors (ML21347A080)
- DG-1348 Rev. 1 (Proposed RG 1.159 Rev. 3) Assuring the Availability of Funds for Decommissioning Production or Utilization Facilities (<u>ML21347A081</u>)
- DG-1349 Rev. 1 (Proposed RG 1.185 Rev. 2) Standard Format and Content for Post-Shutdown Decommissioning Activities Report (ML21347A138)

U.S. NUCLEAR REGULATORY COMMISSION

DRAFT REGULATORY GUIDE DG-1346 Revision 1

Proposed new Regulatory Guide 1.235

Issue Date: February 2022 Technical Lead: Charles Murray

EMERGENCY PLANNING FOR DECOMMISSIONING NUCLEAR POWER REACTORS

A. INTRODUCTION

Purpose

This regulatory guide (RG) provides decommissioning nuclear power reactor licensees with a method that the staff of the U.S. Nuclear Regulatory Commission (NRC) considers acceptable for use in meeting regulatory requirements for emergency preparedness (EP) in Title 10 of the Code of Federal Regulations (10 CFR) Part 50, "Domestic Licensing of Production and Utilization Facilities" (Ref. 1).

Applicability

This RG applies to applicants and licensees of nuclear power reactors licensed under 10 CFR Part 50 and 10 CFR Part 52, "Licenses, Certifications, and Approvals for Nuclear Power Plants" (Ref. 2).

Applicable Regulations

- 10 CFR Part 50 provides regulations for licensing production and utilization facilities
 - 10 CFR 50 47, "Emergency plans," and Appendix E to 10 CFR Part 50, "Emergency Planning and Preparedness for Production and Utilization Facilities," provides EP requirements for nuclear power reactors.
 - 10 CFR 50.54(q), "Emergency plans," provides requirements for emergency plan changes

This RO is being issued in draft form to involve the public in the development of regulatory guidance in this area. It has not received final staff review or approval and does not received final staff position. Public comments are being solicited on this draft regulatory guide (DG) and its associated regulatory analysis. Comments should be accompanied by appropriate supported data. Comments may be benimined through the Federal-mleanking (Web site, https://www.regulations.gov, by searching for draft regulatory guide DG-1346. Alternatively, comments may be submitted to Office of the Secretary U.S. Nuclear Regulatory Commission, Washington, DG 20555-0001, ATTN. Rulemakings and Adjudications Staff. Comments must be submitted by the date indicated in the Federal Register notice.

Electronic copies of this DG and other recently issued guides are available through the NRC's public Web site under the Regulatory Guides document collection of the NRC Library at <a href="https://www.nrc.gov/reading-rmidec-collections/res-guides/" The DG is also available through the NRC's Agencywide Documents Access and Management System (ADAMS) at https://www.nrc.gov/reading-rmiddms.html, under Accession No. ML21347A046. The regulatory analys was be found in ADAMS under Accession No. ML20347A046. The regulatory analys may be found in ADAMS under Accession No. ML20347A046. The regulatory analys may be found in ADAMS under Accession No. ML20347A046.



Unofficial Redline Rule Language

- This document shows how the proposed rule would modify the current regulations in redline/strikeout format.
- ADAMS Accession No. ML22032A001

- (b) Each power reactor applicant for or holder of an operating license, and each applicant for a combined license under subpart C of 10 CFR part 52 for a production or utilization facility of the type and power level specified in paragraph (c) of this section shall submit a decommissioning report, as required by § 50.33(k).
- (1) For an applicant for or holder of an operating license under this part-60, the report must contain a certification that financial reasonable assurance for decommission mill be (for a license applicant), or has been (for a license holder), provided in an amount which may be more, but not less, than the amount stated in the table in paragraph (e)(1) of this ecction adjusted using a rate at least equal to that stated in paragraph (e)(2) of this ecction. For an applicant for a combined license under subpart C of 10 CFR part 52, the report must centain a certification that financial assurance for decommissioning will be provided no later than 30 days after the Commission publishes notice in the Federal Register under § 52.103(a) in an amount which may be more, but not less, than the amount stated in the tableof minimum amounts in paragraph (c)(1) of this section, adjusted using a rate at least equal to that stated in paragraph (c)(2) of this section. For an applicant for a combined license under subpart C of part 52 of this chapter, the report must contain a certification that reasonable assurance of funds to decommission will be provided no later than 30 days after the Commission publishes notice in the Federal Register under § 52.103(a) of this chapter in an amount which may be more, but not less, than the amount stated in the table of minimum amounts in paragraph (c)(1) of this section, adjusted using a rate at least equal to that stated in paragraph (c)(1) of this section.
- (2) The amount to be provided must be adjusted annually using a rate at least equal to that stated in paragraph (c)(2) of this section.
- (3) The amount must be covered by one or more of the methods described in paragraph (e) of this section as assoptable to the NRG.
- (4) The amount stated in the applicant's or licensee's certification may be based on a <u>site-specific decommissioning</u> cost estimate for decommissioning the facility. <u>The site-specific</u> decommissioning cost estimate may be more, but not less, than the amount stated in the table of minimum amounts in paragraph (c)(1) of this section, adjusted using a rate at least equal to that stated in paragraph (c)(2) of this section.

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Find additional information on the NRC public website



https://go.usa.gov/xzksC

Questions?
Contact Dan Doyle, <u>Dan.Doyle@nrc.gov</u>, 301-415-3748





Next Steps

- Public comment period ends: May 17, 2022
- Final rule to the Commission: October 2023 (estimated)
- Final rule publication: May 2024 (estimated)



Acronyms

ADAMS Agencywide Documents Access and

Management System

BWR boiling water reactor

CFR Code of Federal Regulations

DG draft regulatory guide

IOEP ISFSI-only emergency plan

ISFSI independent spent fuel storage installation

NRC Nuclear Regulatory Commission

PDEP permanently defueled emergency plan

PSEP post-shutdown emergency plan

PWR pressurized water reactor

RG regulatory guide

