

NUCLEAR REGULATORY COMMISSION

10 CFR Parts 50 and 52

[NRC-2024-0019]

**Draft Regulatory Guide: Installation Design and Installation of Vented Lead-Acid
Storage Batteries for Production and Utilization Facilities**

AGENCY: Nuclear Regulatory Commission

ACTION: Draft guide; request for comment.

SUMMARY: The U.S. Nuclear Regulatory Commission (NRC) is issuing for public comment a draft Regulatory Guide (DG), DG-1421, "Installation Design and Installation of Vented Lead-Acid Storage Batteries for Production and Utilization Facilities." This DG is proposed Revision 3 of Regulatory Guide 1.128, "Installation Design and Installation of Vented Lead-Acid Storage Batteries for Nuclear Power Plants," and provides methods acceptable to the NRC to meet regulatory requirements for the installation design and installation of vented lead-acid storage batteries in production and utilization facilities. It endorses, with clarifications, the Institute of Electrical and Electronics Engineers (IEEE) Standard (Std.) 484-2019, "IEEE Recommended Practice for Installation Design and Installation of Vented Lead-Acid Batteries for Stationary Applications."

DATES: Submit comments by **February 7, 2024**. Comments received after this date will be considered if it is practical to do so, but the NRC is able to ensure consideration only for comments received on or before this date.

ADDRESSES: You may submit comments by any of the following methods; however, the NRC encourages electronic comment submission through the **Federal rulemaking website**:

- **Federal rulemaking website:** Go to <https://www.regulations.gov> and search for Docket ID **NRC-2024-0019**. Address questions about Docket IDs in Regulations.gov to Stacy Schumann; telephone: 301-415-0624; email: Stacy.Schumann@nrc.gov. For technical questions, contact the individuals listed in the “For Further Information Contact” section of this document.

- **Mail comments to:** Office of Administration, Mail Stop: TWFN-7-A60M, U.S. Nuclear Regulatory Commission, Washington, DC, 20555-0001, ATTN: Program Management, Announcements and Editing Staff.

For additional direction on obtaining information and submitting comments, see “Obtaining Information and Submitting Comments” in the SUPPLEMENTARY INFORMATION section of this document.

FOR FURTHER INFORMATION CONTACT: Michael Eudy, Office of Nuclear Regulatory Research, telephone: 301-415-3104; email: Michael.Eudy@nrc.gov and Sheila Ray, Office of Nuclear Reactor Regulation, telephone: 301-415-3653; email: Sheila.Ray@nrc.gov. Both are staff of the U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001.

SUPPLEMENTARY INFORMATION:

I. Obtaining Information and Submitting Comments

A. Obtaining Information

Please refer to Docket ID **NRC-2024-0019** when contacting the NRC about the availability of information for this action. You may obtain publicly available information related to this action by any of the following methods:

- **Federal Rulemaking Website:** Go to <https://www.regulations.gov> and search for Docket ID **NRC-2024-0019**.

- **NRC’s Agencywide Documents Access and Management System**

(ADAMS): You may obtain publicly available documents online in the ADAMS Public Documents collection at <https://www.nrc.gov/reading-rm/adams.html>. To begin the search, select “Begin Web-based ADAMS Search.” For problems with ADAMS, please contact the NRC’s Public Document Room (PDR) reference staff at 1-800-397-4209, at 301-415-4737, or by email to PDR.Resource@nrc.gov. The ADAMS accession number for each document referenced (if it is available in ADAMS) is provided the first time that it is mentioned in this document.

- **NRC’s PDR:** The PDR, where you may examine and order copies of publicly available documents, is open by appointment. To make an appointment to visit the PDR, please send an email to PDR.Resource@nrc.gov or call 1-800-397-4209 or 301-415-4737, between 8 a.m. and 4 p.m. eastern time (ET), Monday through Friday, except Federal holidays.

B. Submitting Comments

The NRC encourages electronic comment submission through the **Federal rulemaking website** (<https://www.regulations.gov>). Please include Docket ID **NRC-2024-0019** in your comment submission.

The NRC cautions you not to include identifying or contact information that you do not want to be publicly disclosed in your comment submission. The NRC will post all comment submissions at <https://www.regulations.gov> as well as enter the comment submissions into ADAMS. The NRC does not routinely edit comment submissions to remove identifying or contact information.

If you are requesting or aggregating comments from other persons for submission to the NRC, then you should inform those persons not to include identifying or contact information that they do not want to be publicly disclosed in their comment

submission. Your request should state that the NRC does not routinely edit comment submissions to remove such information before making the comment submissions available to the public or entering the comment into ADAMS.

II. Additional Information

The NRC is issuing for public comment a DG in the NRC's "Regulatory Guide" series. This series was developed to describe methods that are acceptable to the NRC staff for implementing specific parts of the agency's regulations, to explain techniques that the staff uses in evaluating specific issues or postulated events, and to describe information that the staff needs in its review of applications for permits and licenses.

The DG, entitled "Installation Design and Installation of Vented Lead-Acid Storage Batteries for Production and Utilization Facilities," is temporarily identified by its task number, DG-1421 (ADAMS Accession No. ML23277A276).

This revision of the guide (Revision 3) endorses, with clarifications, IEEE Std. 484-2019 and applies to production and utilization facilities licensed under part 50 and part 52 of title 10 of the *Code of Federal Regulations* (10 CFR) within the scope of this RG. The previous version of this RG (ADAMS Accession No. ML070080013) endorsed, with certain clarifications, IEEE Std. 484-2002. In 2019, the IEEE revised IEEE Std. 484 to add information on thermal factors of influence (exposure temperature, ambient temperature, temperature gradient, and rate of temperature change) and safety provisions (e.g., electrical hazards, shock hazards, ground fault hazards, arc flash hazards, chemical hazards), modifications to the personal protective equipment section, major changes to mounting and ventilation sections, new provisions on connection to direct current systems and spare cells, and new provisions for material handling and hazard assessment, as well as many other updates, corrections, and clarifications to various sections. The revised IEEE standard also provides two new normative annexes.

The staff is also issuing for public comment a draft regulatory analysis (ADAMS Accession No. ML23277A279). The staff developed a regulatory analysis to assess the value of issuing or revising a regulatory guide as well as alternative courses of action.

As noted in the *Federal Register* on December 9, 2022 (87 FR 75671), this document is being published in the “Proposed Rules” section of the *Federal Register* to comply with publication requirements under 1 CFR chapter I.

III. Backfitting, Forward Fitting, and Issue Finality

Issuance of DG-1421, if finalized, would not constitute backfitting as defined in 10 CFR 50.109, “Backfitting,” and as described in NRC Management Directive (MD) 8.4, “Management of Backfitting, Forward Fitting, Issue Finality, and Information Requests”; affect the issue finality of an approval issued under 10 CFR part 52, “Licenses, Certifications, and Approvals for Nuclear Power Plants”; or constitute forward fitting as that term is defined and described in MD 8.4, because, as explained in this DG, licensees would not be required to comply with the positions set forth in this DG.

IV. Submitting Suggestions for Improvement of Regulatory Guides

A member of the public may, at any time, submit suggestions to the NRC for improvement of existing RGs or for the development of new RGs. Suggestions can be submitted on the NRC’s public website at <https://www.nrc.gov/reading-rm/doc-collections/reg-guides/contactus.html>. Suggestions will be considered in future updates and enhancements to the “Regulatory Guide” series.

Dated: January 3, 2024.

For the Nuclear Regulatory Commission.

/RA/

Meraj Rahimi, Chief,
Regulatory Guide and Programs
Management Branch,
Division of Engineering,
Office of Nuclear Regulatory Research.