



Westinghouse Electric Company
1000 Westinghouse Drive
Cranberry Township, Pennsylvania 16066
USA

U.S. Nuclear Regulatory Commission
Document Control Desk
11555 Rockville Pike
Rockville, MD 20852

Direct tel: 412-374-6118
e-mail: schoedaj@westinghouse.com

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March 27, 2026

References:

1. 10 CFR Part 52, "Licenses, Certifications, and Approvals for Nuclear Power Plants"
2. 10 CFR Part 52, Appendix D, "Design Certification Rule for the AP1000 Design"
3. WEC_LTR_260008, "Transmittal of the "Pre-submittal Meeting AP1000® DCD Revision 20" Presentation," February 24, 2026. (ML26055A327)
4. 10 CFR Part 51, "Environmental Protection Regulations for Domestic Licensing and Related Regulatory Functions"

Subject: AP1000® Design Certification Renewal Request

Pursuant to 10 CFR 52.57 (Reference 1), AP1000 Design Certification (DC) applicant Westinghouse Electric Company LLC (Westinghouse), referenced in 10 CFR 52 Appendix D, hereby requests the United States (U.S.) Nuclear Regulatory Commission (NRC) renew the AP1000 DC.

As part of this renewal request, Westinghouse is submitting an amendment (Revision 20) to the AP1000 DC. Revision 20 of the AP1000 Design Control Document (DCD) (Enclosure 2) brings the DCD up to date. Revision 20 includes construction and operating experience from current AP1000 nuclear power plants operating safely in the U.S. today and will allow for consistency and standardization in future AP1000 plant applications. AP1000 DCD Revision 20 is being submitted in accordance with the NRC's public meeting held on February 26, 2026 (Reference 3).

Currently, the AP1000 DC may be referenced in a Combined License Application (COLA) until February 27, 2046 (Reference 2). Per 10 CFR 52.57(a), Westinghouse may submit an application not less than 12 nor more than 36 months before expiration. Accordingly, Westinghouse will submit an exemption request from 10 CFR 52.57(a) separately.

Enclosure 3 includes a public version of AP1000 DCD Revision 20.

10 CFR 51.55 (Reference 4) requires that severe accident mitigation design alternatives (SAMDA) be addressed for certified designs and that applicants for design certification assess SAMDAs and the applicable decision rationale as to why they will or will not benefit the safety of their designs. Appendix 1B of the AP1000 DCD Revision 19 fulfills this requirement and addresses the costs and benefits of 15 SAMDAs that are not included in the AP1000 plant design. Appendix 1B has been retained in AP1000 DCD Revision 20 and a SAMDA evaluation has been performed. The results of this evaluation indicate that the previously considered SAMDAs, which were deemed to be non-cost beneficial, remain non-cost beneficial and that no new design alternatives were identified. The evaluation concludes that the SAMDA

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review performed in AP1000 DCD Revision 19 with regard to the viability of the proposed SAMDAs remains valid and applicable to the AP1000 plant design presented in AP1000 DCD Revision 20.

Westinghouse requests approval of DCD Revision 20 within the 2026 calendar year.

This submittal contains Westinghouse proprietary information. In conformance with 10 CFR Section 2.390, of the Commission's regulations, Westinghouse is enclosing with this submittal an Affidavit (Enclosure 1). The Affidavit sets forth the basis on which the information identified as proprietary may be withheld from public disclosure by the Commission. Additionally, Enclosure 2 contains Security Related Information (SRI) subject to withholding under 10 CFR 2.390.

Correspondence with respect to the proprietary aspects of this submittal or the Westinghouse Affidavit should reference AW-26-020 and should be addressed to Anthony J. Schoedel, Director, Global Licensing, Westinghouse Electric Company, 1000 Westinghouse Drive, Building 1, Cranberry Township, PA 16066.

Westinghouse appreciates the NRC's consideration of this request and is available to discuss if further clarification is needed.

Anthony J. Schoedel

Anthony J. Schoedel

Director, Global Licensing

cc: Jeremy Bowen
Michele Sampson
Jason Carneal
Mahmoud Jardaneh

Enclosures:

1. Affidavit AW-26-020
2. APP-GW-GL-700, Revision 20, "AP1000 Design Control Document" (PROPRIETARY)
3. APP-GW-GL-702, Revision 2, "Public Version of AP1000 Design Control Document, Revision 20"