

Enclosure 2

**Transmittal of Public Session Presentation Slides to Support the
Westinghouse-NRC Pre-Submittal Meeting on the Westinghouse
AP300 SMR Governing Design Codes & Standards White Paper**

(Non-Proprietary)

September 2024

**Westinghouse Electric Company
1000 Westinghouse Drive
Cranberry Township, PA 16066**

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AP300™ SMR Governing Design Codes and Standards White Paper Pre-Submittal Meeting

September 20, 2024 – PUBLIC Session



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WESTINGHOUSE AP300 SMR



Meeting Objective

- Purpose of this pre-submittal meeting is to describe the AP300 SMR governing design codes and standards strategy. The strategy will be documented in a white paper for NRC review and feedback as part of the pre-application licensing activities for AP300 SMR.

**Updated Pre-Application Regulatory Engagement Plan
submitted to NRC via ML24060A243**

WESTINGHOUSE AP300 SMR



Agenda

- AP300 SMR Strategy for Codes and Standards
- Compliance with 10 CFR 50.55a



AP300 SMR STRATEGY FOR CODES AND STANDARDS

AP300 SMR adopts a significant portion of the design codes and standards used in the AP1000[®] plant as a basis for its development. The following outlines the rationale behind the selection of the applicable AP300 SMR's governing design codes, standards, and their editions:

- **Use of AP1000 codes and standards as a foundation:** AP300 SMR leverages the proven technology and experience gained from the AP1000 plant, which supports the adoptions of its design codes and standards as a starting point.
- **Consideration of technological differences between AP300 SMR and AP1000:** To account for any technological differences between the two designs, the list of governing design codes and standards has been revised and updated accordingly.
- **Incorporation of the most recent industry codes and standards:** The latest editions of the relevant industry codes and standards have been considered to ensure that AP300 SMR remains up to date with current best practices.
- **Regulatory guidance alignment:** The selection of the applicable code and standard editions for AP300 SMR is in line with the most recent regulatory guidance, ensuring compliance with relevant regulation.



AP300 SMR STRATEGY FOR CODES AND STANDARDS

Selection of the applicable editions for AP300 SMR governing design codes and standards

1. Regulatory Endorsement Check

- Is the code or standard endorsed by Regulatory Guide or 10 CFR 50.55a?
 - Use the endorsed edition.

2. Sub-Tier Codes

- Is it a sub-tier code referenced by an endorsed top-tier code?
 - Follow the edition referenced by the endorsed top-tier code.

3. No Endorsement

- If no endorsement is available:
 - Use the most recent edition of the applicable code or standard.

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CONFORMANCE WITH 10 CFR 50.55a

- Construction Code: ASME Boiler and Pressure Vessel Code (BPVC) Section III – 2021 Edition
 - Per September 2024 Amendment to 10 CFR 50.55a
 - Section III Code Cases selected per Regulatory Guide 1.84 Revision 40
 - Supporting ASME BPVC Sections – 2021 Edition except as noted below
 - Section II – Use of later editions is allowed but requires reconciliation with the construction code edition.
 - Section V – For use in the design. Later editions may be used for examination activities.
 - Section IX – For use in the design. Later editions may be used for fabrication activities.
 - Section XI
 - Section XIII
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- ASME NQA-1 – 2015 Edition
 - Aligns with 10 CFR 50.55a and ASME BPVC Section III
 - ASME OM Code – 2022 Edition
 - Per September 2024 amendment to 10 CFR 50.55a
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- IEEE standard 603 – 1991 Edition
 - Aligns with the guidance provided in 10 CFR 50.55a

The AP300 SMR design currently has no expected exceptions to 10 CFR 50.55a

THANK YOU

AP300 SMR

The **ONLY** SMR based on Nth of a Kind Operating Plants



Proven Technology



Advanced Safety



Readily Deployable

