

Enclosure 2

**Transmittal of Public Session Presentation Slides to Support the
Westinghouse-NRC Pre-Submittal Meeting on the Westinghouse
AP300 SMR NSSS Configuration & Layout White Paper**

(Non-Proprietary)

February 2024

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AP300™ SMR NSSS Configuration and Layout White Paper Pre-Submittal Meeting

February 14, 2024 – PUBLIC Session





Meeting Objective

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- Purpose of this pre-submittal meeting is to describe the AP300 SMR Nuclear Steam Supply System which will be documented in a white paper for NRC review and feedback as part of the pre-application licensing activities for AP300.

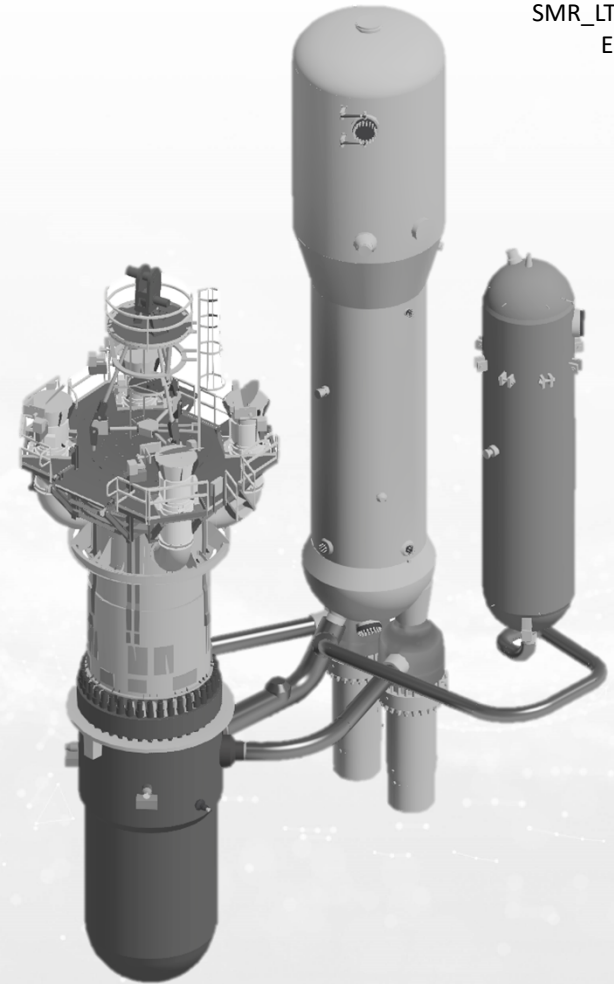
**Initial Pre-Application Regulatory Engagement Plan
submitted to NRC via ML23124A012**



AP300 SMR Reactor Coolant System

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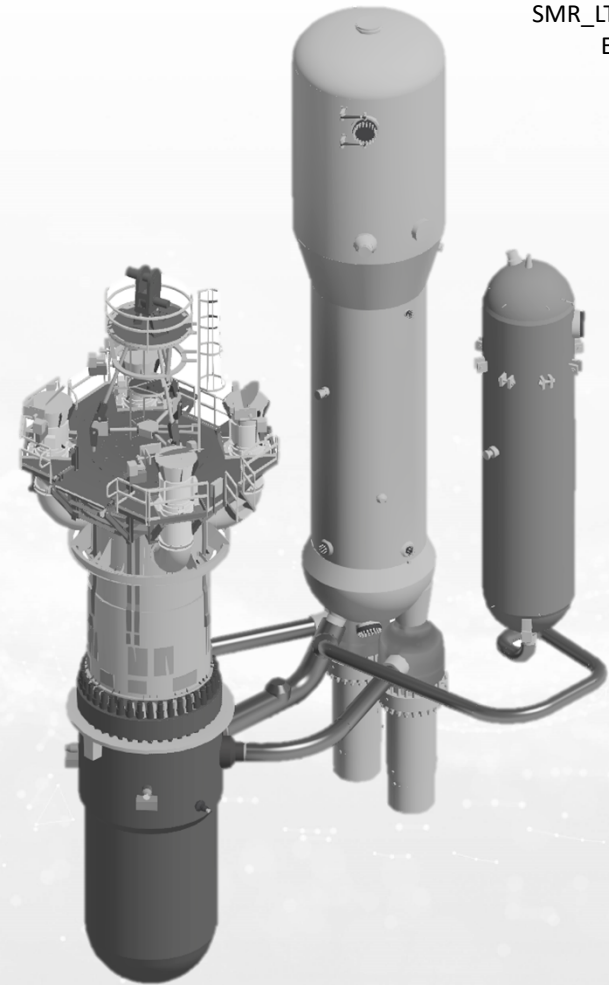
- ▶ AP1000 based components:
 - ▶ Leverages proven design and technologies
 - ▶ Highly reliable elements benefit from accumulated AP1000 experience
 - ▶ Established fabrication methods and supply chain





AP300 SMR Passive safety systems

- ▶ AP1000 based passive safety systems:
 - ▶ High level of safety
 - ▶ Autonomous actuation; no need for human actions over extended periods
 - ▶ External power is not required for actuation. Functioning is driven by natural forces
- ▶ AP300 SMR will leverage the AP600/AP1000 historical testing for design and licensing of passive safety system



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THANK YOU

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AP300 SMR

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



Proven Technology



Advanced Safety



Readily Deployable

