

**Enclosure 2**

**Transmittal of Public Session Presentation Slides to Support the  
Westinghouse-NRC Pre-Submittal Meeting on the Westinghouse  
AP300 SMR Fuel Handling & Storage White Paper**

**(Non-Proprietary)**

**February 2024**

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Enclosure 2

# AP300™ SMR Fuel Handling & Storage White Paper Pre-Submittal Meeting

February 23, 2024 – PUBLIC Session





## Meeting Objective

- ▶ Purpose of this pre-submittal meeting is to describe the AP300 SMR Fuel Handling and Storage concept 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 Fuel Handling & Storage

- ▶ AP300 fuel handling and storage design is based on the AP1000 design:
  - ▶ The refueling machine and fuel handling machine move fuel assemblies inside containment and the auxiliary building, respectively
  - ▶ The fuel transfer tube penetrates the containment vessel, allowing movement of fuel between containment and the auxiliary building
  - ▶ Fuel assemblies are stored in the spent fuel racks



## AP300 SMR Fuel Handling & Storage

- ▶ One difference for AP300 is placement of the spent fuel racks inside containment
  - ▶ Spent fuel racks are in the Spent Fuel Pool located inside containment
  - ▶ The passive safety systems ensure water coverage and heat removal from the spent fuel pool during accident conditions

**Details will be presented in the closed session of this pre-submittal meeting**



THANK YOU

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# AP300 SMR

The ONLY SMR based on N<sup>th</sup> of a Kind Operating Plants



Proven Technology



Advanced Safety



Readily Deployable

