

Enclosure 2

**Transmittal of Public Session Presentation Slides to Support the
Westinghouse-NRC Pre-Submittal Meeting on the Westinghouse
AP300 SMR Emergency Planning Zone Definition White Paper**

(Non-Proprietary)

September 2024

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SMR_LTR_240062
Enclosure 2

AP300™ Emergency Planning Zone Definition White Paper Pre-Submittal Meeting

October 8, 2024 – PUBLIC Session



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Meeting Objective

- ▶ Purpose of this pre-submittal meeting is to describe the **AP300™** SMR planned application of risk-informed emergency planning zone (EPZ) sizing, which will be documented in a white paper to be submitted for NRC feedback as part of the pre-application licensing activities for AP300.

**Regulatory Engagement Plan periodic update submitted to
NRC via ML24060A243**



AP300 SMR Approach to Risk-Informed Emergency Planning Zone Sizing

- ▶ AP300 SMR, similar to other SMR designs, has recognized reductions in overall risk profile relative to large LWRs that merit due consideration of a scalable approach to determining the appropriate emergency planning zone size.
- ▶ AP300 SMR approach will be defined to ensure the EPZ meets the requirements for emergency planning zones defined in 10 CFR 50.47 and consistent with the technical bases used for existing reactors in WASH-1400/NUREG-0396



AP300 SMR Approach to Risk-Informed Emergency Planning Zone Sizing

- ▶ AP300 SMR methodology is consistent with other efforts across the nuclear industry:
 - ▶ Use of EPA PAGs as acceptance criteria
 - ▶ Consideration of a spectrum of accident scenarios (design basis accidents, severe accidents, and high-consequence/low-probability events)
 - ▶ Evolving considerations for site-specific external hazard considerations
- ▶ Westinghouse is using experience gained from parallel efforts in risk-informed EPZ sizing for other projects to inform the approach for the AP300 SMR.



Next Steps

- Submission of formal white paper in late October
- Receipt of NRC Staff Feedback and Follow-Up Discussion



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



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