Enclosure 2

Meeting Agenda and Presentation Materials for Open to Public Portion of the Meeting on Westinghouse EnCore® Chromium Coated Cladding

(Non-Proprietary)

(4 pages attached)

March 2021

Westinghouse Electric Company 1000 Westinghouse Drive Cranberry Township, PA 16066

© 2021 Westinghouse Electric Company LLC All Rights Reserved Agenda for Partially Closed Meeting with the Nuclear Regulatory Commission to Discuss Status of Westinghouse EnCore® Accident Tolerant Fuel (ATF) Chromium Coated Cladding Development

9:00 am to 9:30 am: Open to Public Session

- Introductions
- Westinghouse EnCore ATF Program Overview and Update

9:30 am to 12:00 pm: Closed Session

- Purpose of Meeting
- Program Overview
- Updates on Development and Testing

12:00 pm to 1:00 pm: Lunch Break

1:00 pm to 3:00 pm: Closed Session (continued)

- Updates on Development and Testing (continued)
- Ongoing Work and Next Steps
- Questions and Discussion with NRC Staff

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Westinghouse EnCore® Accident Tolerant Fuel Program

Chromium Coated Cladding Technical Exchange Meeting March 30, 2021



Westinghouse's EnCore® Fuel Program

The EnCore® Fuel program is developing and commercializing advanced fuel products to improve safety and economic performance

Advanced Cladding

- Cr-Coated Zirconium increases safety and operational margin, and may enable high burnup
- Silicon Carbide Cladding safety and operational benefits

Advanced Fuel

- ✓ ADOPT[™] fuel pellets higher density, benefits to fuel cycle costs, and support high burnup
- Advanced Pellet (UN) provide improved fuel cycle economics, thermal properties, and lower operating temperatures



Chromium-Coated Zr
Cladding

SiGATM Silicon Carbide
(SiC) Composite Cladding

Pholo courtesy of General Alomics

Product Evolution

ADOPT™ Pellets





Photo courtesy of Los Alamos National Lab

ATF Initiatives



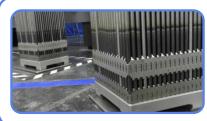
Near term ATF products advancing towards commercialization

- Demonstrating performance through testing and Lead Test Rods (LTR) Post Irradiation Examinations (PIE).
- Additional LTRs are in reactors and further programs are being implemented.
- Substantial progress for data collection and topical preparation to support product rollout.
- Extension of benefits to support high burnup industry interest.



Driving advancements in revolutionary ATF materials

- High-density UN well behaved in leaker tests and demonstrated improved oxidation resistance
- Continued advancements with General Atomics in SiGA® SiC cladding and exploring near term unfueled irradiation.



Coordinating ATF activities for DOE Alignment

- Aligning efforts and schedule for product implementation
- Incorporation of industry high burnup initiatives

