

**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**

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**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**

# 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

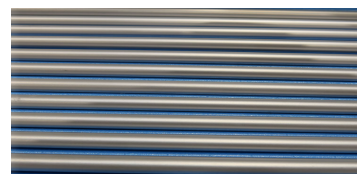
## ✓ Advanced Cladding

- ✓ 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



SiGA™ Silicon Carbide  
(SiC) Composite Cladding

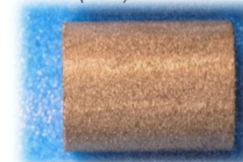


Product Evolution

ADOPT™ Pellets



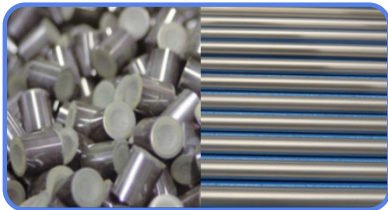
Uranium Nitride  
(UN) Pellets



U<sup>15</sup>N Fuel

Photo courtesy of Los Alamos National Lab

# ATF Initiatives



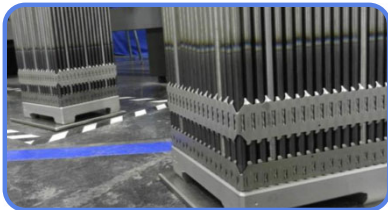
## Near term ATF products advancing towards commercialization

- 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