AGENDA

Title:	OVERVIEW OF ADVANCED REACTOR FUEL ACTIVITIES (Public Meeting)		
Purpose:	To provide the Commission an update on the status and issues associated with the path to licensing advanced reactor fuels.		
Scheduled:	December 8, 2022 9:00 a.m.		
Duration:	Approx. 3.25 hours		
Location:	Commissioners' Hearing Room, 1 st floor OWFN		
Participants:	P	resentation	
External Panel		42 mins.*	
 Andrew Griffith, Deputy Assistant Secretary for 6 mins. Nuclear Fuel Cycle and Supply Chain, Office of Nuclear Energy, DOE <u>Topics</u>: Current efforts of the Advanced Fuels Campaign, including high-assay low enriched uranium activities and the advanced gas reactor program Near and long-term advanced reactor fuels concepts 			
			Sander van Til, Lead Scientist, Nuclear Fuel Research & Innovation, Nuclear Research and Consultancy Group Topic:
	ear fuel testing capabilities of the Petten High Flux Reacto	r	
Jennifer Wheeler , Topic:	Director of Regulatory Affairs, TRISO-X	6 mins.	
	pectives on fuel fabrication for advanced reactors		
Dr. Christina Back, Vice President, General Atomics <u>Topic</u> :		6 mins.	
Over	erview of General Atomics' EM ² advanced reactor fuel design and elopment of its accelerated fuel qualification methodology		
James Vollmer, S <u>Topic</u> :	enior Manager Nuclear Design, TerraPower	6 mins.	
• D	Development and qualification of advanced fuel designs for the Natrium and Molten Chloride Fast Reactors		

Dr. Rusty To Topic:	well, Director, NEXT Lab, Abilene Christian University	6 mins.
	 Perspectives on molten salt fuel design 	
Scientists	man, Director of Nuclear Power Safety, Union of Concerned	6 mins.
<u>Topic</u> : ●	Perspectives on advanced reactor fuel technologies	
Commission Q & A		50 mins.
Break		5 mins.
NRC Staff		40 mins.*
Topics •	rman, Executive Director for Operations : Introduction Opening remarks on the NRC's advanced reactor fuels activities	S
	or, Deputy Office Director for New Reactors, Office of actor Regulation (NRR)	
•	Strategic overview of advanced reactor fuels activities	
Reactors an <u>Topics</u> •	Van Wert, Senior Reactor Systems Engineer, Division of Advan nd Non-Power Production Utilization Facilities, NRR : Readiness for licensing of fuels for advanced reactors Recent licensing activities to support advanced reactor fuels con Collaboration activities on advanced reactor fuel qualification	
	r , Senior Mechanical Engineer, Division of Fuel Management,	

Office of Nuclear Material Safety and Safeguards

Topics:

- Readiness for licensing the enrichment, fabrication, transportation, and storage of advanced reactor fuels
- Front-end and back-end considerations for advanced reactor fuels concepts
- Recent licensing activities to support advanced reactor fuels concepts

Mirabelle Shoemaker, International Safeguards Analyst, Division of Fuel Management, Office of Nuclear Material Safety and Safeguards

Topic:

• International safeguards considerations for advanced reactor fuels

Dr. Wendy Reed, Metallurgist, Division of Engineering, Office of Nuclear Regulatory Research

Topics:

- Research activities supporting the entire advanced reactor fuel cycle
- Modelling and simulation tools to prepare for advanced reactor fuels

Commission Q & A

50 mins.

Discussion – Wrap-Up

5 mins.

*For presentation only and does not include time for Commission Q & A's