



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

May 30, 2019

MEMORANDUM TO: John Segala, Chief  
Advanced Reactor Policy Branch  
Division of Advanced Reactors  
Office of New Reactors

FROM: Boyce Travis */RA/*  
Advanced Reactor Policy Branch  
Division of Advanced Reactors  
Office of New Reactors

SUBJECT: SUMMARY OF A PUBLIC MEETING WITH EPRI REGARDING TRISO  
TOPICAL REPORT ON MAY 8, 2019

The U.S. Nuclear Regulatory Commission (NRC) staff held a Category 1 public meeting with the Electric Power Research Institute (EPRI) on May 8, 2019. The purpose of the meeting was to discuss a proposed topical report from EPRI regarding foundational fuel performance of Tristructural Isotropic (TRISO) fuel for advanced reactor designs with EPRI and other stakeholders planning to apply the topical report in future submittals.

The meeting notice can be found in the Agencywide Documents Access and Management System (ADAMS) under Accession No. ML19119A229. The meeting notice is also posted on the NRC public website. Enclosures 1 and 2 are the meeting agenda and attendance list for the meeting, respectively. The slides referenced during the discussion can be found at ADAMS Accession No. ML19134A247.

Summary of Meeting:

On May 28, 2019, staff from the NRC conducted a public meeting with representatives from EPRI and other stakeholders regarding a planned topical report submittal on Uranium Oxycarbide (UCO) TRISO particle fuel. The TRISO particles form the foundational element of the fuel in a variety of advanced reactor designs, and EPRI stated the motivation for this topical report is to make progress towards fuel qualification for a variety of advanced reactor designs. In their presentation, EPRI stated that this topical report provided an opportunity to assemble data and analyses that were design independent in order to allow a wide spectrum of stakeholders to leverage this topical as a stepping stone towards fuel qualification.

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EPRI briefly discussed historical TRISO performance and planned to provide a summary of this data in the topical report, noting that this information was not being relied on and only provided supporting background information for the topical report. EPRI also provided context on the Advanced Gas Reactor (AGR) program and detailed that only AGR-1 and AGR-2 data was being used for the present topical report submittal. EPRI provided a brief summary of the expected scope of the report and expected context for future referencing of the report, making clear that the primary objective of the planned topical report is a performance demonstration of the intact TRISO particles. The NRC staff and EPRI discussed the proposed conclusions and requests planned in the topical report, with the NRC staff emphasizing the need for specificity in the requests in the topical report in order to avoid limiting future applicability of the report.

At the conclusion of the meeting, there was an opportunity for the public to provide comments and ask questions. There were no comments or questions from the public.

Enclosure:

1. Agenda for Public Meeting.
2. List of Attendees.

cc w/encls: See next page

SUMMARY OF A PUBLIC MEETING WITH ELECTRIC POWER RESEARCH INSTITUTE ON  
MAY 8, 2019 DATED: May 30, 2019DISTRIBUTION:

PUBLIC

JSegala, NRO

ACubbage, NRO

CVanWert, NRO

BTravis, NRO

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ADAMS Accession No.:ML19136A237

\*via e-mail

NRC-002

<b>OFFICE</b>	NRO/DAR	NRO/DAR
<b>NAME</b>	BTravis	JSegala
<b>DATE</b>	05/16/2019	05/30/2019

**OFFICIAL RECORD COPY**

**AGENDA FOR PUBLIC MEETING  
U.S. NUCLEAR REGULATORY COMMISSION (NRC)  
Wednesday, May 8, 2019  
2:00 p.m. – 4:00 p.m.**

PURPOSE: To discuss a proposed topical report from EPRI regarding foundational fuel performance of TRISO fuel for advanced reactor designs.

**OPEN**

<u>Time</u>	<u>Topic</u>	<u>Led By</u>
2:00 p.m.	Opening Remarks	NRC
2:20 p.m.	Discussion regarding planned TRISO TR submittal	NRC/EPRI
3:45 p.m.	Opportunity for Public Comment	NRC/PUBLIC
4:00 p.m.	Adjourn	

**PUBLIC MEETING**  
**U.S. NUCLEAR REGULATORY COMMISSION**  
**Wednesday, May 8, 2019**  
**One White Flint North, Room O-6B4**  
**2:00 a.m. – 4:00 p.m.**

**List of Attendees**

Name	Organization
<b>Representing the Nuclear Regulatory Commission</b>	
Boyce Travis John Segala Amy Cabbage Bill Reckley	NRO/DAR/ARPB
Derek Widmayer	ACRS Staff
Chris Van Wert Jeff Schmidt* Niko McMurry	NRO/DAR/ARTB
<b>Representing Other Stakeholders</b>	
Andrew Sowder Christian Marciukescu David Scott*	EPRI
Mark Holbrook Jim Kinsey Dave Petty*	INL
Madeline Feltus*	DOE
Gary Bell	X-Energy
Blaise Collin Darrell Gardner Jim Tomkins	Kairos Power
Kati Austgen	NEI
Farshid Shahrokhi	Framatome
Jill Monahan	Westinghouse
Steve Schiltehl	BWXT
Jana Bergman*	Curtiss-Wright
Bill Stark*	Studs vik
Amir Afzali* Jason Redd*	Southern Company

\* = participated via teleconference