

MICROREACTOR PROGRAM VIRTUAL WORKSHOP

Purpose: Inform advanced nuclear technology developers and stakeholders of accomplishments and future plans, as well as solicit feedback on microreactor developer needs



August 18-19, 2020

Agenda

August 18, 2020: 9:00 a.m. – 2:00 p.m. MDT

Time	Description	Presenter(s)
8:30 a.m.	Day 1 Presenters log on and test systems	
9:00 a.m.	Opening Remarks	Alice Caponiti, DOE
9:05 a.m.	DOE Mission and Strategy	Tom Sowinski, DOE
9:20 a.m.	Microreactor Program Overview and Needs	Jess Gehin, INL
9:50 a.m.	Q&A	
10:00 a.m.	Microreactor Market Studies	Paul Wilson, UW
10:20 a.m.	Q&A	
10:30 a.m.	Break	
10:40 a.m.	Non-Nuclear Testing – MAGNET Facility	Terry Morton, INL
11:00 a.m.	Q&A	
11:10 a.m.	Microreactor Applications Testing – MARVEL Project	Yasir Arafat, INL
11:30 a.m.	Q&A	
11:40 a.m.	Break	
11:50 p.m.	Technology Maturation Panel <ul style="list-style-type: none"> • Moderators • Materials • Instrumentation and Sensors • Control Systems • Heat Removal and Validation Studies • Legacy Fuel Qualification Update Q&A	Jess Gehin, INL Erik Luther, LANL John Carpenter, LANL Troy Unruh, INL Anthony Crawford, INL Holly Trelle, LANL Latif Yacout, ANL
1:10 p.m.	Regulatory – Integrated Approach	Jason Christensen, INL
1:30 p.m.	Q&A	
2:00 p.m.	Adjourn	

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August 19, 2020: 9:00 a.m. – 2:00 p.m. MDT

Time	Description	Presenter(s)
8:30 a.m.	Day 2 Presenters log on and test systems	
9:00 a.m.	Welcome / Purpose of Day 2	Everett Redmond, NEI
9:10 a.m.	NEI – Microreactor Considerations	Marc Nichol, NEI
9:25 a.m.	DOD – Project Pele	Justin Coleman, INL
9:50 a.m.	EPRI – Industry Perspective	Andrew Sowder, EPRI
10:05 a.m.	NRC – Microreactor Reference Plant Model	Steve Bajorek, NRC
10:30 a.m.	Nuclear Electric Insurance Limited (NEIL) Perspectives	Shannon McArdle, NEIL
10:55 a.m.	Break	
11:10 a.m.	Microreactor Research Areas - Developer Panel Session Topics: O perational Control (Remote/Autonomous), I nstrumentation, C onsiderations for remote locations, A dvanced manufacturing, T ransportability, S tructural materials	Everett Redmond, NEI Pieter Venter, Ultrasafe Nuclear Harlan Bowers, X-energy Tom Tweedle, Westinghouse Jacob DeWitte, Oklo Joseph Miller, BWXT Doug Bernauer, Radiant Nuclear
12:30 p.m.	Break	
12:40 p.m.	Customer Perspective – Panel Discussion	Andrew Sowder, EPRI Katy Huff / Caleb Brooks, Univ of IL William Thompson, AVEC Ross Koningstein, Google Research
1:40 p.m.	Summary	Everett Redmond, NEI Jess Gehin, INL
2:00 p.m.	Adjourn	

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Acronyms

ANL	Argonne National Laboratory
AVEC	Alaska Village Electric Cooperative
DOD	Department of Defense
DOE	Department of Energy
EPRI	Electric Power Research Institute
INL	Idaho National Laboratory
LANL	Los Alamos National Laboratory
MAGNET	Microreactor Agile Non-nuclear Experimental Testbed
MARVEL	Microreactor Applications Research Validation and Evaluation Project
NEI	Nuclear Energy Institute
NEIL	Nuclear Electric Insurance Limited
NRC	Nuclear Regulatory Commission
Q&A	Questions & Answers