

Gas-Cooled Reactor Fuels Development and Methods, Modeling and Validation Program Review

June 18-19, 2019

Willow Creek Building, Conference Room 1
1955 Fremont Avenue, Idaho Falls

June 18, 2019

Fuels Development Program Review

8:30	Welcome	Hans Gougar, INL
8:40	Department of Energy – Nuclear Energy Perspective	Bill McCaughey, DOE-NE
9:00	AGR Program Overview	Paul Demkowicz, INL
9:30	AGR-2 PIE at INL	John Stempien, INL
10:00	<i>Break</i>	
10:15	AGR Advanced Microscopy	Isabella van Rooyen, INL
10:45	AGR-3/4 PIE	John Stempien, INL
11:30	AGR-2 and AGR-3/4 Heating Test Results	John Stempien, INL
12:00	<i>No Host Lunch</i>	
1:30	AGR-5/6/7 Final Fuel Confirmatory QC Analysis Results	Douglas Marshall, INL
2:00	AGR-5/6/7 Irradiation Update	Mike Davenport, INL
2:30	AGR-5/6/7 Thermal Modeling	Grant Hawkes, INL
3:00	<i>Break</i>	
3:15	AGR-5/6/7 Release-to-Birth Ratio Analysis	Ryan Fronk, INL
3:45	Air/Moisture Ingress Furnace Development Update	John Stempien, INL
4:15	TRISO Fuel Performance Topical Report	Paul Demkowicz, INL
4:45	Adjourn	

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8:30	Post-Irradiation and Post-Safety-Test Examination of AGR-2 TRISO Particle Performance	John Hunn, ORNL
9:00	CCCTF and FITT Heating Tests of AGR-2 Irradiation Test Fuel	Robert Morris, ORNL
9:30	Oxidation of Matrix Material in Helium with Varied Moisture Content	Tyler Gerczak, ORNL
10:00	DOE-Sponsored Fuel Development Activities at X-energy	Dan Brown, X-energy
10:30	AGR Program Path Forward	Paul Demkowicz, INL
11:00	<i>Break</i>	
11:30	Working lunch DOE-Sponsored GCR Research Poster Presentation	Willow Creek Building Atrium

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Methods, Modeling and Validation Program Review

11:30	Working lunch DOE-Sponsored GCR Research Poster Presentation	Willow Creek Building Atrium
1:00	Welcome	Hans Gougar, INL
1:10	DOE-sponsored support of HTGR Modeling and Simulation	Hans Gougar, INL
1:30	HTGR Simulation with MAMMOTH and Pronghorn (HTTR, HTR-10, HTR-PM and SANA)	Javier Ortensi, INL Sebastian Schunert, INL Vincent Laboure, INL
2:30	Status of the OECD/NEA MHTGR-350 and IAEA CRP on HTGR UAM Benchmarks	Gerhard Strydom, INL
3:00	<i>Break</i>	
3:15	Water NSTF Status and Testing Program	Darius Lisowski, ANL
3:45	High Temperature Test Facility Status and Related Activities	Brian Woods, OSU
4:15	International Collaborations (CNWG, CMVB)	Paul Humrickhouse, INL Gerhard Strydom, INL
4:45	General Discussion	Hans Gougar, INL
5:15	Closing Remarks	Hans Gougar, INL