

[Track5] Several Fuels and Failure Modes

• Fuel Rod Cladding Impact on Time at Temperature at Post-CHF Conditions Based on Single Rod Thermal Hydraulic Testing for Uncoated and Cr-coated Zr Cladding

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• Evaluation of Uniform Elongation for Hydrogen-Based Transient Cladding Strain Limit

Guirong Pan(Westinghouse Electric Company),Tim Grede(Westinghouse Electric Company),David Mitchell(Westinghouse Electric Company),Jeff Kobelak(Westinghouse Electric Company),Jonna Partezana(Westinghouse Electric Company),Martin KÖNIG(Studsvik Nuclear AB),David Schrire(Studsvik Nuclear AB),Joakim Karlsson(Studsvik Nuclear AB),Ben Garrison(Oak Ridge National Laboratory),Nedim Cinbiz(Oak Ridge National Laboratory),Xinyu Huang(University of South Carolina),Jingjing Bao(University of South Carolina),Tanner Harmon(University of South Carolina)

• A fracture prediction methodology for cladding tube in bending conditions from metallography analysis

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• Iodine-Induced Stress Corrosion Cracking of Zr-1%Nb Fuel Cladding

Per Magnusson(Studsvik Nuclear AB),Anna-Maria Alvarez(Studsvik Nuclear AB),Joakim Karlsson(Studsvik Nuclear AB),David Schrire(Studsvik Nuclear AB),MI WANG(Studsvik Nuclear AB)

• Investigating Cladding Performance beyond the Critical Heat Flux through Rapid Thermal Transients

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