

DOE NE Used Fuel Disposition FY2015 Working Group Presentations

<http://energy.sandia.gov/energy/nuclear-energy/ne-workshops/ufd-working-group-2015/>

FOLDER NAME	PRESENTATION TITLE	AUTHOR
Tuesday, June 9, 2015		
UFD WG 2015-06-09 Tue Auditorium Afternoon - 1	Quantification of Cation Sorption to Engineered Barrier Materials Under Extreme Conditions	Powell
UFD WG 2015-06-09 Tue Auditorium Afternoon - 1	Development and Experimental Benchmark of Simulations to Predict Used Nuclear Fuel Cladding Temperatures during Drying Operations	Manzo
UFD WG 2015-06-09 Tue Auditorium Afternoon - 2	IRP: Multi-Sensor Inspection and Robotic Systems for Dry Storage Casks: Functions and Requirements PSU, UIUC, USC	Lissenden
UFD WG 2015-06-09 Tue Auditorium Afternoon - 2	Improving the understanding of the coupled thermal-mechanical-hydrologic behavior of consolidating granular salt	Stormont
UFD WG 2015-06-09 Tue Auditorium Afternoon - 3	Development and Experimental Benchmark of Simulations to Predict Used Nuclear Fuel Cladding Temperatures during Drying Operations	Manzo
UFD WG 2015-06-09 Tue Auditorium Morning - 1	UFD R&D Annual Campaign Meeting	Larson
UFD WG 2015-06-09 Tue Auditorium Morning - 1	PICS DELIVERABLE FORM AND INFORMATION MANAGEMENT	Couch
UFD WG 2015-06-09 Tue Auditorium Morning - 1	Used Fuel Disposition R&D Campaign Working Group Meeting Introduction	Swift
Wednesday, June 10, 2015		
UFD WG 2015-06-10 Wed Afternoon 1240	Subsurface Data, Interpolations, and Tools – a cross-cutting need for DOE R&D	Rose
UFD WG 2015-06-10 Wed Afternoon 1242 - 1	PFLOTRAN: Options for Integrating Process Models	Hammond
UFD WG 2015-06-10 Wed Afternoon 1242 - 1	BBM/BExM/TOUGH-FLAC model - clay	Rutqvist
UFD WG 2015-06-10 Wed Afternoon 1242 - 1	Coupled THMC Model for EBS Bentonite and Clay Formation	Zheng
UFD WG 2015-06-10 Wed Afternoon 1242 - 1	Lightning Talk: Colloid-Facilitated Transport Model	Reimus
UFD WG 2015-06-10 Wed Afternoon 1242 - 1	Thermal-Hydrological-Chemical (THC) Process Model Integration	LANL
UFD WG 2015-06-10 Wed Afternoon 1242 - 1	Salt Coupled THM Processes – TOUGH-FLAC	Rutqvist
UFD WG 2015-06-10 Wed Afternoon 1242 - 1	RBSN integration into PA for argillite repositories	Kim
UFD WG 2015-06-10 Wed Afternoon 1242 - 2	Desorption of Radionuclides from Pseudocolloids – Focus on Plutonium	Begg
UFD WG 2015-06-10 Wed Afternoon 1242 - 2	Introduction and Objectives for GDSA ↔ Process Model Integration	Sevougian

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UFD WG 2015-06-10 Wed Afternoon 1242 - 2	PFLOTRAN Integration: Nesting of Multiscale Process Models	Hammond
UFD WG 2015-06-10 Wed Afternoon 1242 - 2	Generic Disposal System Analysis (GDSA): Coupling of PFLOTRAN to the Fuel Matrix Degradation Model (FMDM)	Hammond
UFD WG 2015-06-10 Wed Afternoon 1242 - 2	Discrete Fracture Network Modeling Suite	LANL
UFD WG 2015-06-10 Wed Afternoon 1242 - 2	Integration of Non-Darcian Flow Model into PA model	Zheng
UFD WG 2015-06-10 Wed Afternoon 1243 - 1	The lesson learned from CIRFT framework and its implications to SNF transport canister development	Wang
UFD WG 2015-06-10 Wed Afternoon 1243 - 2	CIRFT bending load vs fatigue life data reveals large data scatter	
UFD WG 2015-06-10 Wed Afternoon 1243 - 3	Assembly Tests and Possible Future Rail Tests ST Transportation Work Packages	McConnell
UFD WG 2015-06-10 Wed Afternoon 1243 - 4	Rail Cask/Railcar Quotes	
UFD WG 2015-06-10 Wed Afternoon 1243 - 5	Truck Test Route 40 miles in Albuquerque area	
UFD WG 2015-06-10 Wed Afternoon 1243 - 5	Variation of the Deep Borehole Reference Design for Disposal of Vitrified High Level Waste	Rigali
UFD WG 2015-06-10 Wed Afternoon 1245	Salt Repository Research Actinide and Microbial Studies in Brine	Reed
UFD WG 2015-06-10 Wed Morning 1240 - 1	Environment on the Surface of SNF Dry Storage Canisters: Salt and Brine Stability	Bryan
UFD WG 2015-06-10 Wed Morning 1240 - 1	INFORMATION LEARNED FROM CIRFT (SNF VIBRATION) TESTING	Wang
UFD WG 2015-06-10 Wed Morning 1240 - 2	An Integrated Approach to Closing the Technical Gap: Cladding – Hydride Reorientation and Embrittlement	Hanson
UFD WG 2015-06-10 Wed Morning 1240 - 2	Progress in Mechanical Testing and Hydriding of Nuclear Cladding at PNNL	Lavender
UFD WG 2015-06-10 Wed Morning 1240 - 3	Technical Assistance on Nondestructive Evaluation and In-service Inspection of Dry Storage Casks	Meyer
UFD WG 2015-06-10 Wed Morning 1240 - 3	Eddy Current for Sizing Cracks in Canisters for Dry Storage of Used Nuclear Fuel – Measurement Results on Notches and Thermal Fatigue Cracks	Meyer
UFD WG 2015-06-10 Wed Morning 1242 - 1	The Concept of Deep Borehole Geological Disposal in Ukraine	Faybishenko
UFD WG 2015-06-10 Wed Morning 1242 - 2	Swedish Deep Borehole COSC-1 and a New Approach to Hydrogeologic Testing During Drilling	Tsang
UFD WG 2015-06-10 Wed Morning 1242 - 2	Deep Borehole Emplacement Mode Hazard Analysis (DBEMHA)	Sevougian
UFD WG 2015-06-10 Wed Morning 1242 - 3	Deep Borehole Disposal Engineering	Hardin

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UFD WG 2015-06-10 Wed Morning 1242 - 3	Handling & Emplacement Options Study for Deep Borehole	Cochran
UFD WG 2015-06-10 Wed Morning 1242 - 4	Evaluation of Technical Siting Guidelines using the Regional Geology GIS Database	Perry
UFD WG 2015-06-10 Wed Morning 1242 - 4	Deep Borehole Disposal Work Package: Overview	Freeze
UFD WG 2015-06-10 Wed Morning 1242 - 4	Deep Borehole Field Test (DBFT) FY15 Site Evaluation Overview	Sassani
UFD WG 2015-06-10 Wed Morning 1242 - 5	Deep Borehole Field Test Site Characterization	Kuhlman
UFD WG 2015-06-10 Wed Morning 1242 - 5	Variation of the Deep Borehole Reference Design for Disposal of Vitrified High Level Waste	Rigali
UFD WG 2015-06-10 Wed Morning 1243 - 1	Fuel Matrix Degradation Model	Jerden
UFD WG 2015-06-10 Wed Morning 1243 - 1	International Collaboration: SKB EBS Task Force	Jove-Colon
UFD WG 2015-06-10 Wed Morning 1243 - 1	Experimental Studies of Sorption, Diffusion, and Swelling in Clay Minerals	Matteo
UFD WG 2015-06-10 Wed Morning 1243 - 2	THM Modeling of the Mont Terri FE Heater Test and DECOVALEX Studies	Rutqvist
UFD WG 2015-06-10 Wed Morning 1243 - 2	Comprehensive Approaches to Developing Ion Exchange and Surface Complexation Databases for Nuclear Waste Repository Modeling and PA	Zavarin
UFD WG 2015-06-10 Wed Morning 1243 - 3	Uranium(VI) Sorption and Diffusion in Montmorillonite and Bentonite	Tinnacher
UFD WG 2015-06-10 Wed Morning 1243 - 3	6-year study of the U(VI) diffusion in bentonite: Update on modeling results	Joseph
UFD WG 2015-06-10 Wed Morning 1243 - 3	Coupled THM fracture damage modeling in argillite	Kim
UFD WG 2015-06-10 Wed Morning 1243 - 3	Experiments in Support of Process Models for Radionuclide Transport and Colloid-Facilitated RN Transport in Crystalline Rock	Reimus
UFD WG 2015-06-10 Wed Morning 1243 - 4	Discrete Fracture Network Modeling in Crystalline Rock	Viswanathan
UFD WG 2015-06-10 Wed Morning 1243 - 4	Coupled THMC Models for EBS Bentonite and Clay Formation	Zheng
UFD WG 2015-06-10 Wed Morning 1243 - 4	DFN-FCM BENCHMARK FLOW AND TRANSPORT SIMULATIONS IN CRYSTALLINE ROCK II	Hadgu
UFD WG 2015-06-10 Wed Morning 1243 - 4	DR Crystalline Disposal R&D	Wang
UFD WG 2015-06-10 Wed Morning 1243 - 5	EBS - Summary of critical mineral phase changes / corrosion products at elevated P,T	Caporuscio

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UFD WG 2015-06-10 Wed Morning 1243 - 5	Thermal-Mechanical Data for Argillite Disposal Systems: Beyond Standard Density Functional Theory	Weck
UFD WG 2015-06-10 Wed Morning 1245 - 1	Brine/Vapor Migration Experimental Studies in Granular Salt	Jordan
UFD WG 2015-06-10 Wed Morning 1245 - 2	Infrared Camera Images	Herber
UFD WG 2015-06-10 Wed Morning 1245 - 3	TOUGH-FLAC model developments and applications related to salt coupled THM processes	Rutqvist
UFD WG 2015-06-10 Wed Morning 1245 - 3	Thermal-Hydrological-Chemical (THC) code development updates	LANL
UFD WG 2015-06-10 Wed Morning 1245 - 4	SALT THERMAL TESTING PROGRAM PROTOTYPE CANISTER HEATER Design, Fabrication, and Testing	Stauffer
UFD WG 2015-06-10 Wed Morning 1245 - 4	Thermal-Hydrological-Chemical (THC) Process Model Integration	Stauffer
UFD WG 2015-06-10 Wed Morning 1245 - 4	Two-Phase Flow in Reconsolidating Salt	Kuhlman
UFD WG 2015-06-10 Wed Morning 1245 - 4	Test Proposal Document for Phased Field Thermal Testing in Salt	Stauffer
UFD WG 2015-06-10 Wed Morning 1245 - 4	PFLOTRAN Model Development for Salt	Kuhlman
Thursday, June 11, 2015		
UFD WG 2015-06-11 Thu Afternoon Auditorium	Waste Form Performance Model Development	Ebert
UFD WG 2015-06-11 Thu Afternoon Auditorium	Storage and Transportation Wrap-up	Sorenson
UFD WG 2016-06-11 Thu Morning 1240	Dual-Purpose Canister Direct Disposal Technical Feasibility Evaluation: Introduction and Summary	Hardin
UFD WG 2016-06-11 Thu Morning 1240	System-Level Logistics for DPC Disposal	Kalinina
UFD WG 2016-06-11 Thu Morning 1240	Technical Feasibility of Direct Disposal of DPCs – Summary and Recommendations	Price
UFD WG 2016-06-11 Thu Morning 1240	Repository Cost Estimates	Severynse
UFD WG 2016-06-11 Thu Morning 1240	Criticality Aspect of the DPC Direct Disposal	Banerjee
UFD WG 2016-06-11 Thu Morning 1242-1	DR Crystalline Disposal R&D –International (KURT)	Wang
UFD WG 2016-06-11 Thu Morning 1242-1	Update of Activities and Opportunities within the Colloids Formation and Migration International Project	Reimux
UFD WG 2016-06-11 Thu Morning 1242-2	International Collaboration in Disposal Research	Birkholzer

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UFD WG 2015-06-11 Thu Morning 1243	Evaluation of the Frequency for Gas Sampling for the High Burnup Confirmatory Data Project	Stockman
UFD WG 2015-06-11 Thu Morning 1243	Dry Cask Simulator for a Boiling Water Reactor Fuel Assembly	Durbin
UFD WG 2015-06-11 Thu Morning 1243	An Abbreviated History of the Rail Transport of U.S. Nuclear Weapons (1948 –1986)	Franklin