

EFCOG

Nuclear Safety & Engineering: Design to Demolition Enhanced Workshop and Training

Saturday August 17, 2024		
All Day	Nothing scheduled at this time	
Sunday August 18, 2024		
	90 UV – Conf. Rm. A2/D72	100 UV – Conf. Rm. 125
8:00 am – 12:00 pm	Bridging Knowledge Gap Between Engineering & Nuclear Safety Tinh Tran/Julie Minton-Hughes	DOE-STD-5506 Brenda Hawks, Ray Sprankle, Jeff Woody, Terry Foppe, Bill Walker
12:00 pm – 1:00 pm	Lunch	
1:00 pm – 5:00 pm	DOE-STD-1189 David Compton	DOE-STD-5506 (cont.)
Monday August 19, 2024		
All Day – Badging and Registration		
		Location
8:00 am – 5:00 pm	DOE-STD-5506 (cont.)	100 UV – Conf. Rm. 125
8:30 am – 5:00 pm	Engineering Group Meeting	90 UV – Conf. Rm. A94
8:30 am – 5:00 pm	Nuclear Criticality Safety Meeting	90 UV – Conf. Rm. A2/D72
8:00 am – 12:00 pm	Microshield for Nuclear Facility Safety Use Guy Wilson/Ian Gross	New Hope Center – Media Rm.
12:00 pm – 1:00 pm	Lunch	
1:00 pm – 5:00 pm	Dispersion Modeling Carl Mazzola	New Hope Center – Media Rm.

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Tuesday August 20, 2024		
701 Scarboro Meet & Train		
8:30 am – 8:40 am	General Information and Announcements	Karen Balo, UCOR Nuclear Safety
8:45 am – 9:15 am	Welcome - UCOR	J. Kent Fortenberry UCOR Chief Operating Officer Project Execution & Operations
9:15 am – 9:45 am	Keynote Address	John A. Mullis II Manager, Oak Ridge Office of Environmental Management
9:45 am – 10:00 am	BREAK	
10:00 am – 10:45 am	CNS/CDNS Panel Discussion	Brandon Reyes, Facilitator
10:45 am – 11:15 am	DOE O 421.1 Update	David Compton
11:15 am – 11:45 am	Regulatory Updates in Process	TBD
11:45 am – 1:30 pm	Lunch	
	Session 1 –Nuclear Criticality Safety	Session 2 – DOE-STD-1189 Documentation
	90 UV Conf. Rm. A2/D72	100 UV Conf. Rm. 125
1:30 pm – 2:00 pm	The Most Reactive Height-to-Diameter Ratio for a Bare Plutonium Cylinder is about 0.9 Braden Saltus (Virtual)	Development of the Conceptual Safety Design Report (CSDR) for TerraPower’s Molten Chloride Reactor Experiment (MCRE) Troy P. Reiss
S1: 2:00 pm – 2:30 pm S2: 2:00 pm - 2:45 pm	Design Feature Applicability/Elevation of Types of NCS Controls to Types of TSR Controls Mark McHugh	Achieving Approval of a Compliant Preliminary Documented Safety Analysis by Partnering with the Design Team and Using Bridging Tables as a Tool to Develop Safety Controls David Kornis (Virtual)
Session 1:2:30 pm – 2:45 pm Session 2:2:45 pm – 3:00pm	BREAK	
S1: 2:45 pm - 3:00 pm S2: 3:00 pm- 3:45 pm	The Transition from an Expert Based to a Standards Based NCS Program Matthew Grammes	SBRT-SRNS Review Process for SPD Project PDSA C. Brad Evans (Virtual)
S1: 3:15 pm - 3:45 pm S2: 3:45pm – 4:30 pm	De Minimis Values: When is “Small” Small Enough? Lloyd Corwin	HLW Design Completion Approach Mike Greutman
S1: 3:45 – 4:15 pm S2: 4:30 pm – 5:00 pm	NUTRON: Modernizing Nuclear Material Tracking Lloyd Corwin	Safety in Site Selection: An Approach for Modular and Mobile Hazard Category 2 US Department of Energy Nuclear Facilities Syreeta Vaughn

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Wednesday August 21, 2024		
701 Scarboro Meet & Train		
9:00 am – 9:30 am	Welcome – Y-12	David Kupferer Senior Director Mission Engineering, Nuclear Safety
9:30 am – 10:15	Historical DOE Drivers for < HC-3 Safety Basis Programs	Kelsey Forde & Brenda Hawks
10:15 am – 10:30 am	BREAK	
	Session 3 –Hazard Analysis/Modeling	Session 4 – Operations
	100 UV Conf. Rm. 125	90 UV Conf. Rm. A2/D72
10:30 am – 11:00 am	Exploratory Data Analysis and Machine Learning of Long-Term Meteorological Observations for Nuclear Safety Xiao-Ying Yu	Transportation SAR Chapter Paper Summary Jonathon Wheelwright
11:00 am – 11:30 am	Dust Hazard Analysis Integration within the Documented Safety Analysis Corey R. Crawford	Application of an NRC-Like Operability Determination Process in a DOE Environment Mark McHugh
11:30 am – 12:00 pm	Multiphysics-Modeling Of Fire-Induced Uranium Aerosol Formation – A-Posteriori Benchmarking Of Experiments Doug Clark	Actions Taken to Address Defense Nuclear Facilities Safety Board (DNFSB) Recommendation 2019-1 Uncontrolled Hazard Scenarios and 10 CFR 830 Implementation at the Pantex Plant Dave Kupferer
12pm – 1:30 pm	LUNCH	
1:30 pm – 2:00 pm	Effective Aircraft Impact Area William Walker	TWPC Low Differential Pressure Safety Instrumented System – From Failure to Success Kyle Peterson
2:00 pm – 2:30 pm	Hazard Evaluation Technique Selection Kelsey Forde	Indications and Safety Functions/Items, SSCs, and Safety Designation of SSCs Relied Upon for SAC Action Performance Mark McHugh
2:30 pm – 3:00 pm		Operational Implementation Factors for Verification of Non-Safety Significant Shielding Cody C. Orsak
3:00 pm – 3:15 pm	BREAK	
3:15 pm – 3:45 pm	Modern Models for Calculating the Atmospheric Dispersion Factor Carl Mazzola	Implementation of DOE-STD-5506-2021 at Hanford’s Central Waste Complex Helen Boyd

	Session 3 - Continued	Session 4 - Continued
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S3: 3:45 pm – 4:30 pm S4: 3:45 pm – 4:15	Plausibility Screening of Unmitigated Hazard Scenarios in Support of DOE-STD-3009-2014 Compliant Documented Safety Analysis Charles Carathers (Virtual)	Resolution of Chemical Burn Potential Inadequacy in the Safety Analysis (PISA) at 242-A Evaporator Facility via Sprint Team Approach Roger Lanning
S4: 4:15 pm – 4:45 pm		ATRC Facility Dose Consequence Evaluation for 40 Years Extension Gemma Irais Strong

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Thursday August 22, 2024		
701 Scarboro Meet & Train		
8:30 am – 9:00 am	Welcome – ORNL	Tony Koonce Division Director Nuclear Facility Safety Division (NFSD) ESH&Q
9:00 am – 10:30 am	DOE-STD-3009-2014 Panel – Status and Application Experience	David Compton, Facilitator
10:30 am – 10:45	BREAK	
10:45 am – 11:30	Risk Informed Decision Making	Brandon Reyes/Vanderbilt University
11:30 am – 1:00 pm	LUNCH	
	Session 5 –Risk/Process Improvements	Session 6 – D&D
	100 UV Conf. Rm. 125	90 UV Conf. Rm. A2/D72
1:00 pm – 1:30 pm	Application of a Qualitative Risk-Informed, Performance -Based Approach for the MARVEL Microreactor at the Idaho National Laboratory Doug Gerstner (Virtual)	D&D Challenges – ORNL Buildings 3026 & 3517 Charlie Hanna
1:30 pm – 2:00 pm	Common Mistakes with the Application of a Risk Matrix Timothy Stirrup	Portsmouth Gaseous Diffusion Plant Decontamination and Decommissioning: Challenges, Tool and Process Development Craig Fraley
2:00 pm – 2:30 pm		Downgrade of the 9206 Complex at Y-12 National Security Complex Matthew Miller
2:30 pm – 2:45 pm	BREAK	
2:45 pm – 3:15 pm	Measuring the Fluorine Generation Rate in Stored Spent FLiBe Salt’s Own Radiation Field and Lessons Learned from MSRE Headspace Gas Sampling Guy Wilson	ORNL 3005 Low Intensity Test Reactor Demolition Project Joshua Vajda
3:15 pm – 3:45 pm	Emerging Issues Coordinator Trina Garrett	Decommissioning & Demolition Safety Concerns on Capital Projects Raymond Jasniecki
3:45 pm – 4:15 pm	Strategy for Improving Cross-Functional Communication Wes Collins	ORNL 3042 Research Reactor D&D Segmentation Project Joshua Vajda
4:15 pm – 4:45 pm	LLNL Lessons Learned Brandalin Barnes	Deactivation and Decommissioning of the Triton Glovebox at Lawrence Livermore National Laboratory

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		<i>Shauntay Coleman</i>
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