

**PUBLIC MEETING
DETAILED AGENDA
Rev. 0**

Second Annual Subsurface Investigations Public Workshop

May 11, 2022, 12:00 PM to 05:00 PM ET

Microsoft Teams meeting (see meeting notice for access information)

Time	Topic	Speaker
12:00 pm	#0 Welcome and Logistics	NRC Jane Marshall/ Ashley Roberts and Brett Klukan
12:10 pm	Opening Remarks #1 NRC Opening Remarks #2 NEI Opening Remarks	NRC: Cynthia Barr/ Tom Aird NEI: Bruce Montgomery
12:40 pm	Overview presentations: <i>#3 Methodologies for Optimization of Survey Design</i> <i>#4 Statistical Methods for Subsurface Surveys to Support Decommissioning</i>	SC&A: Carl Gogolak PNNL: Deborah Fagan
1:20 pm	Discussion Period #3 Potential Discussion Questions i. What are methods to determine the elevated area size of concern? ii. Is the use of the Bayesian Ellipgrid to detect elevated areas of a certain size appropriate for MARSSIM users and use scenarios? iii. What should be the criteria for secondary sampling? iv. Is the use of Markov Bayes appropriate for MARSSIM users and use scenarios? #4 Potential Discussion Questions i. How does the number of samples (boreholes) change for estimation versus prediction? ii. How would a stratified sampling design effectively estimate a statistic to compare to a dose threshold? iii. Can a stratified design be used to krig? iv. What are the temporal considerations for estimation and prediction?	All
2:00 pm	Break	
2:10 pm	<i>#5 Groundwater Monitoring Programs Under</i>	RSCS: Matt Darois

	<i>NEI-07-07</i> and #6 <i>Applicability of the Basement Fill Model</i>	Eric Darois
2:50 pm	Discussion #5 and #6 discussion questions coming soon	All
3:20 pm	#7 <i>DOE Challenges with Subsurface Investigation and Site-Specific Case Study</i>	DOE: Amanda Anderson
3:40 pm	#8 <i>Using Electrical Resistivity Tomography (ERT) and Other Geophysical Methods to Non-Invasively Inform Subsurface Investigations Related to Decommissioning</i>	PNNL/DOE: Tim Johnson Fred Day-Lewis
4:00 pm	Break	
4:10 pm	#9 <i>Lessons Learned Identified during Independent Verification Activities</i>	ORAU/ORISE: David King
4:30 pm	Discussion #7 discussion questions coming soon #8 Potential Discussion Questions i. How has ERT been used at Nuclear Power Plants (NPPs) or other sites with residual subsurface radioactivity? ii. How can ERT imaging be used to guide and/or reduce direct borehole sampling requirements? iii. What are the limitations of using ERT at NPPs? iv. How can ERT be used to understand processes or performance of remedial actions taken to mitigate subsurface radionuclide contamination? #9 Potential Discussion Questions i. What techniques have been used to survey excavations and other hard-to-access locations that may be unsafe for surveyors to enter? ii. What is ALARA when looking for discrete sources or elevated areas in the subsurface? iii. Is it important to relate survey design to the dose modeling assumptions used to derive DCGLs?	All
5:00 pm	Adjourn	