U.S. DEPARTMENT OF ENERGY | **NETL NATIONAL ENERGY TECHNOLOGY LABORATORY**

NRAP Phase III – SMART Phase II

Technical Leadership Team Coordination Discussion

December 6-8, 2022

Hilton Phoenix Airport, Phoenix, AZ

Tuesday, December 6

Time	Activity/Topic	Speakers
8:00 – 9:00	Breakfast	
	NRAP Session Begins	
9:00 – 9:05	**Welcome and Meeting Charge**	Bob Dilmore
9:05 – 9:15	**FECM Program Remarks and BIL perspective**	Traci Rodosta
9:15 – 9:30	**Phase III: Approach, Outcomes, and Impact**	Bob Dilmore
9:30 – 10:30	**TOPIC 1:** What are key opportunities and challenges for assessing and managing induced seismicity at the site and basin-scale? (tools, workflows, stakeholder interactions) **Framing the discussion (10 min)** **Open Discussion (40 min)** **Distilling insights and priorities (10 min)**	Kayla Kroll
10:30 – 11:00	*Break*	
11:00 – 12:00	**TOPIC 2:** What are the features of a risk-based model to address important questions of subsurface reuse for geologic carbon storage (Class II to Class VI transition)? **Framing the discussion (10 min)** **Open Discussion (40 min)** **Distilling insights and priorities (10 min)**	Bill Carey
12:00 – 13:30	Lunch	
13:30 – 14:45	**TOPIC 3:** Are we on track to make a credible model to quantify basin-scale risks and support de-risking of resources? **Framing the discussion (10 min)** **Open Discussion (40 min)** **Distilling insights and priorities (10 min)**	Diana Bacon
14:45 – 15:00	*Break*	
15:00 – 16:15	**TOPIC 4:** Are we focused on the right conceptual framework to address key questions of long-term liability? **Framing the discussion (10 min)** **Open Discussion (40 min)** **Distilling insights and priorities (10 min)**	David Morgan
16:15 – 17:30	**TOPIC 5**: Is the NRAP adaptive, risk-based monitoring design module addressing the right question (evaluating vs. optimizing design)? **Framing the discussion (10 min)** **Open Discussion (40 min)** **Distilling insights and priorities (10 min)**	Erika Gasperikova
17:30	**Adjourn**	

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Wednesday, December 7

Time	Activity/Topic	Speakers
7:30 – 8:30	Breakfast	
	NRAP Session Continued	
8:30 – 9:30	**TOPIC 6:** Stakeholder engagement – How can we iterate faster, learn quicker, gain better insight? How do we mature our tools to address important questions of risk for regulators and operators? **Framing the discussion (10 min)** **Open Discussion (40 min)** **Distilling insights and priorities (10 min)**	Brian Strazisar
9:30 – 10:30	**NRAP TLT Wrap-Up Discussion and Next Steps** **New initiatives/motivating themes?** **Crosscutting teams?** **Early and late wins?**	All NRAP
10:30 – 10:45	*Break*	
	NRAP-SMART Joint Session Begins	Hema Siriwardane Bob Dilmore
10:45 – 10:50	**Objective/Focus**	
10:50 – 10:55	**Key features of NRAP Phase III**	
10:55 – 11:05	**Key features of SMART Phase II**	
11:05 – 11:15	**Enumerating touch points, complementarities, and conflicts**	
11:15 – 12:15	**Lunch Discussion Topic**: Identifying a process to promote communication and complementarity	
	NRAP-SMART Touch Points Discussion	**Discussion Moderators**
12:15 – 13:15	**Workflows/tools for Class VI permitting/regulatory decision support**	Bob Dilmore
13:15 – 13:45	**Unified framework for data flow, processing, and decision support**	Diana Bacon
13:45 – 14:15	**Machine Learning Applications**	Jared Schuetter
14:15 – 14:45	**Monitoring for CO2 plume and leak detection**	David Alumbaugh
14:45 – 15:15	**Tools for cost and liability**	David Morgan
15:15 – 15:30	**Wrap up and Next Steps**	Hema Siriwardane
	NRAP-SMART Joint Session Ends	
15:30 – 15:45	*Break*	

SMART Session will start following the break.

Wednesday, December 7 Continued

Time	Activity/Topic	Speakers
	SMART Session Begins	
15:45 – 16:00	**Introductory Remarks**	Hema Siriwardane
16:00 – 16:10	**FECM Program Remarks and BIL perspective**	Traci Rodosta
16:10 – 16:20	**Expected Meeting Outcomes**	Hema Siriwardane Srikanta Mishra
16:20 – 17:05	**Work Package 2A Status Updates/Q&A**	Rajesh Pawar Seyyed Hosseini
17:05 – 17:50	**Work Package 2B Status Updates/Q&A**	Jared Schuetter Alex Tartakovsky
17:50	**Adjourn**	

Thursday, December 8

Time	Activity/Topic	Speakers
7:30 – 8:30	Breakfast	
8:30 – 9:00	**Site Selection Discussion**	David Alumbaugh Jen Bauer
9:00 – 9:45	**Work Package 2C2 Status Updates/Q&A**	David Alumbaugh Joe Morris
9:45 – 10:30	**Work Package 2C3 Status Updates/Q&A**	Hongkyu Yoon Josh White
10:30 – 10:45	*Break*	
10:45 – 11:30	**Work Package 2C4 Status Updates/Q&A**	Diana Bacon Derek Vikara
11:30 – 12:30	Lunch	
	SMART Cross-cutting Topics	
12:30 – 13:30	**Unified Simulation and Data Platform**	Joe Morris
13:30 – 14:30	**Visualization Platform(s)**	Derek Vikara
14:30 – 15:00	**Machine Learning Tools**	Jared Schuetter
15:00 – 15:15	*Break*	
15:15 – 15:45	**Software and Hardware Issues**	Hongkyu Yoon
15:45 – 16:15	**Data/Information Sharing Protocols**	Rajesh Pawar
16:15 – 16:45	**Closing Remarks and Adjourn**	Hema Siriwardane Srikanta Mishra