



Midwestern Radioactive Materials Transportation Project

The Council of State Governments (CSG) Midwestern Radioactive Materials Transportation Committee (MRMTC)

08 & 09 October 2024 | Wingate by Wyndham Bismarck Conference Room Bismarck, North Dakota

Tuesday, 08 October

0730 - 0830	Hotel Breakfast (on your own)
0830 - 0840	Welcome and Introductions
0840 - 0940	Kewaunee Energy Solutions Midwestern Shipments <i>Joe Lynch</i>
0940 – 1040	"Integrating Socially Led Co-Design into Consent-Based Siting of Interim Storage Facilities" Updates Will Livingston
1040 - 1050	Break
1050 – 1210	North Dakota High-Level Radioactive Waste Advisory Council Panel Discussion Senator Dale Patten, Representative Jon Nelson, & Senator Jim Roers
1210 – 1330	Lunch (on your own)
1330 – 1520	U.S. Department of Energy (DOE) Program Reports & Committee Discussion

- Office of Environmental Management (30 min) Ellen Edge
- Office of Nuclear Energy (30 min) Sara Hogan
- Carlsbad Field Office (30 min) James Mason
- National Transportation Stakeholders Forum (NTSF) Ad Hoc Working Groups
 - o Planning Committee (5 min) Melissa Shahzadeh
 - o Section 180 (c) (5 min) Greg Gothard
 - o Spent Nuclear Fuel (SNF) Rail/ Routing (5 min) Tad Rumas
 - o SNF Management Communications and Outreach (5 min) Swapan Saha

1520 – 1550	Package Performance Demonstration Update <i>Miriam Juckett</i>
1550 – 1600	Break
1600 – 1630	North Anna Test Cask Transportation Updates Kevin Connolly
1630	Conclusion Review Action Items



Closing Remarks

1645 Adjourn for the Day

1800 Group Dinner (optional)

Sazon Bismarck | 4510 Skyline Crossings (0.5 miles / 5 minutes from

hotel)

Wednesday, 09 October

Closed Session for MRMTC Members and Partners Only

0730 – 0830 Hotel Breakfast (on your own)

0830 – 0930 Regional Roundtable

All committee members, State & Tribal guests

0930 – 0950 Cooperative Agreement Group Reports

- Tribal Radioactive Materials Transportation Committee (5 min) Richard Arnold
- Southern States Energy Board (5 min) Chris Wells
- Western Interstate Energy Board (5 min) Melanie Snyder
- Council of State Governments East (5 min) *Uldis Vanags*

0950 – 1100 Committee Business Session

- Chair's Report & Project Update (5 min) Tad Rumas
- Regional Outreach ad hoc Work Group Flyer (15 min) Melissa Shahzadeh
- Election of Co-Chair (15 min) Melissa Shahzadeh
- Committee Work Group Assignments & Plans (10 min) Melissa Shahzadeh
- MRMTC Spring 2025 & Fall 2025 Meeting (10 min) Melissa Shahzadeh
- Member Survey (5 min) Melissa Shahzadeh

1100 – 1110 Break

1110 – 1140 Maritime Transport of Microreactors

Steve Maheras

1140 Conclusion

Review Action Items Closing Remarks

1200 Adjourn



The Council of State Governments Midwestern Radioactive Materials Transportation Committee

Committee Member Roles in 2024

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Committee Officers and Liaisons	Chairs:	
Preside at all meetings of the committee and	Tad Rumas, Ohio	
perform such other duties as may be required	Mark Paulson, Wisconsin	
Sign official committee correspondence	Immediate Past Chair:	
• Direct the activities of the committee	Rodney Pitchford, Illinois	
• Represent the committee at meetings of other	Committee Liaisons:	
groups	Legislative: Rep. Mark Schreiber, Kansas	
Participate in one conference call annually to assess		
the committee's work and identify needed changes		
to approach, funding sources, scope, etc.		
National Transportation Stakeholders Forum	Planning Committee:	
(NTSF)	Mark Paulson, Wisconsin	
Planning Committee: Develop annual meeting	Rodney Pitchford, Illinois	
agenda and oversee meeting planning; oversee the	Tad Rumas, Ohio	
working groups; develop plans for webinars;	Melissa Shahzadeh, CSG Midwest	
prioritize issues for new working groups	Section 180(c) Ad Hoc Working Group (AHWG):	
Ad hoc working groups: Focus on specific issues	Greg Gothard, Michigan	
and associated tasks; contribute ideas to agendas for	Swapan Saha, Kansas	
the NTSF annual meeting and periodic webinars	Ryan Seabaugh, Missouri	
Participate in conference calls, webinars, and	Melissa Shahzadeh, CSG Midwest	
possible meetings; review/write documents		
possible meetings; review/write documents	Spent Nuclear Fuel (SNF) Rail Route/Transportation	
	AHWG:	
	Edward Engle, Iowa	
	Brian Vercruysse, Illinois	
	Tad Rumas, Ohio	
	Melissa Shahzadeh, CSG Midwest	
	Transportation Emergency Preparedness Program	
	(TEPP) AHWG:	
	Greg Gothard, Michigan	
	Tad Rumas, Ohio	
	SNF Management – Communications and Outreach	
	AHWG:	
	Swapan Saha, Kansas	
	Melissa Shahzadeh, CSG Midwest	
Department of Energy Office of Nuclear Energy	Mark Paulson, Wisconsin	
(DOE-NE) Transportation Core Group	Tad Rumas, Ohio	
Represent the committee at one or two meetings per	Melissa Shahzadeh, CSG Midwest	
year to learn about recent developments related to	·	
the Integrated Waste Management System		
Participate in conference calls; review/comment on		
documents		



Allan Barker, U.S. Nuclear Regulatory Commission (NRC) Regional Tribal Engagement (RTE) Work Group Collaborate with TRMTC representatives on Michael Bradley, Pokagon Band of Potawatomi Nation outreach to Tribes in Midwestern states Scott Doig, U.S. Bureau of Indian Affairs (BIA) Participate in conference calls, webinars, and Greg Gothard, Michigan meetings; review/write documents; present Tim Grant, Omaha Tribe of Nebraska information Aaron Kallunki, Minnesota Provide guidance to state employees and agencies Dan King, Oneida Nation on how to increase collaboration and Allie Leber, North Wind Site Services communication with regional Tribes Tansey Moore, National Conference of State Legislatures Heather Westra, Prairie Island Indian Community Melissa Shahzadeh, CSG Midwest – LEAD **Regional Outreach Work Group** Courtney Eckstein, Indiana Assist staff in developing informational materials to Rodney Pitchford, Illinois distribute to newly elected officials in late 2024 and Mack Johnson, Nebraska early 2025 Melissa Shahzadeh, CSG Midwest - LEAD Develop ideas for coordinating with industry on transportation-related public information messages and materials Participate in conference calls and webinars; review/write documents; present information



The Council of State Governments Midwestern Radioactive Materials Transportation Committee

<u>Committee Leadership</u>: The committee elected its first chair in 1992. In 1994, the committee began electing vice chairs to succeed the chair, with each position having a two-year term. In 2008, the committee changed its leadership structure to have senior and junior co-chairs that serve two-year staggered terms.

Year	Senior co-chair*	Junior co-chair*
2024	Tad Rumas (Ohio)	Mark Paulson (Wisconsin)
2023	Rodney Pitchford (Illinois)	Tad Rumas (Ohio)
2022	Michael Snee (Ohio)	Rodney Pitchford (Illinois)
2021	Tiffany Drake (Missouri)	Michael Snee (Ohio)
2020	Kaci Studer (Indiana)	Tiffany Drake (Missouri)
2019	Greg Gothard (Michigan)	Kaci Studer (Indiana)
2018	Kevin Leuer (Minnesota)	Greg Gothard (Michigan)
2017	Teri Engelhart (Wisconsin)	Kevin Leuer (Minnesota)
2016	Kelly Horn (Illinois)	Teri Engelhart (Wisconsin)
2015	Laura Dresen (Indiana)	Kelly Horn (Illinois)
2014	Jane Beetem (Missouri)	Laura Dresen (Indiana)
2013	Lance Evans (Iowa)	Jane Beetem (Missouri)
2012	Tim Runyon (Illinois)	Lance Evans (Iowa)
2011	Paul Schmidt (Wisconsin)	Tim Runyon (Illinois)
2010	Melanie Rasmusson (Iowa)	Paul Schmidt (Wisconsin)
2009	Kevin Leuer (Minnesota)	Melanie Rasmusson (Iowa)
2008	Jane Beetem (Missouri)	Kevin Leuer (Minnesota)
2007	Robert Owen (Ohio)	Jane Beetem (Missouri)
2006	Robert Owen (Ohio)	Frank Moussa (Kansas)
2005	Thor Strong (Michigan)	Robert Owen (Ohio)
2004	Thor Strong (Michigan)	Robert Owen (Ohio)
2003	Tim Runyon (Illinois)	Thor Strong (Michigan)
2002	Tim Runyon (Illinois)	Thor Strong (Michigan)
2001	Frank Moussa (Kansas)	Tim Runyon (Illinois)
2000	Frank Moussa (Kansas)	Tim Runyon (Illinois)
1999	Don Flater (Iowa)	Frank Moussa (Kansas)
1998	Don Flater (Iowa)	Frank Moussa (Kansas)
1997	David Crose (Indiana)	Don Flater (Iowa)
1996	David Crose (Indiana)	Don Flater (Iowa)
1995	Harold Borchert (Nebraska)	David Crose (Indiana)
1994	Harold Borchert (Nebraska)	David Crose (Indiana)
1993	Harold Borchert (Nebraska)	NA
1992	Harold Borchert (Nebraska)	NA



<u>Meeting Rotation</u>: The committee rotates its meetings around the region to give each state a chance to serve as host. The current plan is for DOE to hold an annual meeting of the National Transportation Stakeholders Forum (NTSF) each spring, with the location rotating among the four regions.

Meeting	Midwestern location	Other location
2013: Spring		Buffalo, NY (NTSF)
2013: Fall	Kansas City, KS	
2014: Spring	Bloomington, MN (NTSF)	
2014: Fall	Traverse City, MI	
2015: Spring		Albuquerque, NM (NTSF)
2015: Fall	Des Moines, IA	
2016: Spring		Orlando, FL (NTSF)
2016: Fall	St. Louis, MO	
2017: Spring		Pittsburgh, PA (NTSF)
2017: Fall	Cincinnati, OH	
2018: Spring	Omaha, NE (NTSF)	
2018: Fall	Madison, WI	
2019: Spring		Arlington, VA (NTSF)
2019: Fall	Indianapolis, IN	
2020: Spring		Virtual (NTSF)
2020: Fall	Virtual	
2021: Spring		Virtual (NTSF)
2021: Fall	Chicago, IL	
2022: Spring		Philadelphia, PA (NTSF)
2022: Fall	Rapid City, SD	
2023: Spring	St. Louis, MO (NTSF)	
2023: Fall		Carlsbad, NM
2024: Spring		Denver, CO (NTSF)
2024: Fall	Bismarck, ND	
2025: Spring		Las Vegas, NV (NTSF)
2025: Fall		



The Council of State Governments Midwestern Radioactive Materials Transportation Committee

Tad Rumas (Ohio), Co-Chair Mark Paulson (Wisconsin), Co-Chair

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Midwest Radioactive Materials Transportation Project (MRMTP) Status Report

Fall 2024

Status of the Cooperative Agreements

CSG Midwest currently has a cooperative agreement with the U.S. Department of Energy (DOE) Office of Nuclear Energy (NE) that will run until 30 September 2026. This agreement funds work on future spent nuclear fuel (SNF) shipments, biannual Midwestern Radioactive Materials Transportation Committee (MRTMC) meetings, the MRMTC Regional Tribal Engagement Work Group, Transportation Core Group meetings, relevant National Transportation Stakeholder Forum (NTSF) Ad Hoc Working Groups (AHWG), the Community AnalySiS And Readiness Aide (CASSANDRA), and other activities.

CSG Midwest also currently has a cooperative agreement with the DOE Carlsbad Field Office (CBFO) that will run until 30 June 2028. This agreement funds work on transuranic (TRU) waste shipments to the Waste Isolation Pilot Plant (WIPP), biannual MRMTC meetings, subaward agreements with Illinois and Iowa that pay for salaries, training, travel, equipment, etc., and other activities.

Finally, CSG Midwest has a cooperative agreement with the DOE Office of Packaging and Transportation (OPT) that will run until 30 September 2027. This agreement funds work on non-SNF shipments of radioactive material by DOE, biannual MRMTC meetings, NTSF meetings, relevant NTSF AHWGs, and other activities.

Overall, the funding received or expected will be sufficient to cover all regular project activities, including information and communications activities. In addition, travel funding is available to MRMTC members and other Midwestern state personnel interested in transportation-related training or exercises. Funding is also available to cover travel related to the committee's Regional Tribal Engagement work. State rail safety personnel from the Midwestern states will be eligible for reimbursement of travel expenses for attending committee meetings and NTSF annual meetings.

Items of Note in 2024:

- The MRMTC holds its Spring 2024 meeting in June in Denver, CO in conjunction with the National Transportation Stakeholders Forum (NTSF). Sixteen members of the MRMTC attend.
- The MRMTC holds its Fall 2024 meeting in October 2024 in Bismarck, North Dakota. A new cochair is elected to replace Tad Rumas (OH), as his tenure ends.
- The Southwest Research Institute (SwRI)'s Community AnalySiS AND Readiness Aide (CASSANDRA) computer program is successfully deployed at the Lucas County, Ohio Emergency Management Agency in July 2024. Members of police, emergency management, and logistics are present. CASSANDRA is deployed at the Fargo, ND Emergency Management Agency in October 2024.

- MRMTC co-chairs and MRMTC PM Melissa Shahzadeh (hereafter "PM") attend the Transportation Core Group meeting hosted by DOE-NE in Boston, MA in September 2024.
- PM and members of Indiana Department of Homeland Security attend Naval Nuclear Propulsion Program demonstration of a simulated "train vs. utility truck" accident at the Fort Hall Reservation in Idaho in September 2024.
- The Regional Outreach Ad hoc Working Group completes its charge to develop a single sheet (front and back) flyer capturing the essential history of radioactive shipments in the US and the work of the MRMTC as well as an "infographic." The documents are voted on by the committee at the annual fall meeting.
- The Regional Tribal Engagement (RTE) Ad hoc Working Group explores ideas to cultivate increased participation by state officials. The RTE focuses on how best to surmount the historic challenges of engaging Tribal representatives.
- PM participates in the DOE Integrated Research Project workshop entitled "Integrating socially led co-design into consent-based siting of interim storage facilities" in Madison, WI in April 2024 and again in Norman, OK in September 2024.
- PM meets with Canada's Nuclear Waste Management Organisation (NWMO) in October 2024 to discuss the impending announcement of the selection of a "single preferred location" for the country's deep geological repository (DGR) for SNF. This location has been selected using a "deliberative democracy" style approach to consent-based siting. The location may be of importance to the MRMTC.

Transportation Emergency Preparedness Program (TEPP) Updates

- A full 2-day TEPP/MERRTT is taught in Columbus, OH in August. Fourteen first responders are trained.
- CSG Midwest approves funding for an Illinois state employee and a Michigan state employee to travel for TEPP/MERRT training during Q4 of FY24.

For Reference:

Regional Tribal Engagement (RTE) Work Group: This work group's purpose is to help MRMTC representatives' outreach to Tribes in their states. This is done through collaboration with the Tribal Radioactive Materials Transportation Committee (TRMTC), Midwestern tribal representatives, federal agencies, and members of the MRMTC. There is great interest amongst the region's states in sharing information with, and collaborating with, Tribes regarding transportation of spent fuel and other radioactive materials. By working through the regional committee, it may be possible to overcome barriers that states have encountered in the past.

Planning Guide Review Work Group: The MRMTC Planning Guide Review Work Group is formed every odd-numbered year, with the purpose of MRMTC members assisting staff to review and revise the "Part II. Recommended Practices" section of the Planning Guide for Shipments of Radioactive Materials through the Midwestern States.

NTSF Planning Committee: MRMTC co-chairs are the Midwest's state representatives on the Planning Committee, along with Melissa Shahzadeh as staff representatives. As the name suggests, this committee plans the annual meetings of the NTSF.

SNF Rail/Routing AHWG: The purpose of the SNF Rail/Routing AHWG is to facilitate a dialogue between federal staff from DOE, the Federal Railroad Administration (FRA), Tribes and states, and other transportation stakeholders, to develop a common understanding of how future rail shipments of SNF will operate, and to identify outstanding issues or questions to resolve in advance of commencing rail-based spent nuclear fuel shipping campaigns. The goal of the AHWG is to identify key issues relating to rail transport from the NTSF community, address those issues and document work done through white papers or summary reports and make that work available to the NTSF community.

Section 180(c) AHWG: This AHWG was established to continue to evaluate DOE's proposed policy for Section 180(c) of the Nuclear Waste Policy Act of 1982, as amended. The group will also identify outstanding issues/activities necessary for successful implementation of the policy including, but not limited to, allocation of funds, allowable activities, development of grant guidance documents and a technical assistant plan. The goal of the AHWG is to help DOE consider issues of importance to State, Tribal and other government entities to effectively conduct planning and training for emergency response in support of a national SNF shipping program, document work done through white papers (aka "issue papers") and make that work available to the NTSF community.

TEPP Training AHWG: The TEPP mission is to ensure that federal, state, tribal, and local responders have access to the plans, training, and technical assistance necessary to safely, efficiently, and effectively respond to transportation accidents involved DOE-owned radioactive materials. The TEPP Training AHWG is established periodically to solicit input from States and Tribes on revisions to sections of the Modular Emergency Response Radiological Transportation Training (MERRTT).

SNF Management – Communications and Outreach AHWG: The goal of this AHWG is to help DOE effectively and accurately communicate about planned DOE SNF transportation and associated SNF management activities, including federal interim storage. The AHWG will provide input to DOE-NE on developing messaging, strategies, and products to communicate effectively with Tribes, States, the general public, and other stakeholders on SNF transportation and management activities and issues.

Website: CSG Midwest hosts the NTSF website, https://www.ntsf.inso/. AHWG leads and Annual Meeting hosts are expected to maintain their portions on the website.

Transportation Core Group: The purpose of the Transportation Core Group is to present the states and Tribes with an opportunity to learn where various DOE-NE programs and projects stand, as well as pose questions directly to the people working on these projects. Generally, the core group is made up of state regional groups (SRG) Co-Chairs, SRG staff, and DOE-NE staff.