Midwestern Radioactive Materials Transportation Committee (MRMTC) Newcomers’ Orientation 2021
Orientation Overview

- **Section I**: What’s What
- **Section II**: Who’s Who
- **Section III**: Why it Matters
What’s What

- **SNF HLW**: Spent Nuclear Fuel and High-Level Radioactive Waste
- **TRU**: Transuranic Waste
- **LLW/MLLW**: Low-Level Radioactive Waste/Mixed Low-Level Radioactive Waste
Radiation

People involved

Requirements
- US Department of Transportation
- US Nuclear Regulatory Commission
- DOE Orders
- Congress
- State and tribal laws, rules, regulations

SNF HLW

TRU

LLW/MLLW

SNF HLW

TRU

LLW/MLLW

SNF HLW

TRU

LLW/MLLW
Who’s Who?

- Midwestern Radioactive Materials Transportation Project (MRMTP)
- Midwestern Radioactive Materials Transportation Committee (MRMTC)
- National Transportation Stakeholders Forum (NTSF)
- Department of Energy (DOE) Offices/Funding Sources
The Midwestern Radioactive Materials Transportation Project (MRMTP)

- A joint project between The Council of State Governments Midwestern Office (CSG Midwest) and the U.S. Department of Energy (DOE)
- Started in 1989
- Helps state governments in the Midwest learn about and provide input into the DOE’s plans for shipping radioactive materials through the region

Lisa Janairo
Lead MRMTP Staffer from 1989-2021

Mitch Arvidson
Lead MRMTP Staffer from 2021-today
Midwestern Radioactive Materials Transportation Committee (MRMTC)

- Formed in 1990
- Originally focused on future shipments planned by DOE Office of Civilian Radioactive Waste Management (OCRWM)
- Since 1998, MRMTC also works with DOE Office of Environmental Management (EM) on waste shipments related to cleanup of facilities used during the Cold War era for researching and manufacturing nuclear weapons
- MRMTC works closely with DOE Office of Nuclear Energy (NE) on planning for an integrated waste management system to transport, store, and dispose of commercial spent nuclear fuel (SNF) and high-level radioactive waste (HLW)
- Committee made up of up to 24 members representing 12 Midwestern states (IL, IN, IA, KS, MI, MN, MO, NE, ND, OH, SD, and WI)
  - 12 seats for executive agency officials appointed by Midwestern governors
  - Up to 12 seats are for legislators appointed by the Chair of the Midwestern Legislative Conference (MLC)
- Committee meets twice a year, in the spring and the fall, with meetings lasting 1 – 2 days
  - Fall meetings are held in a rotation of Midwestern states
  - Spring meetings are held in conjunction with the Annual Meeting of the National Transportation Stakeholders Forum (NTSF)
- CSG Midwest reimburses the travel expenses for committee members
Current MRMTC Roster

- **Illinois**
  - Kelly Horn – Committee Liaison to the MLC and Past Co-Chair (2015-16)
  - *Alternate:* Rodney Pitchford
- **Indiana**
  - Vacant
- **Iowa**
  - Christopher Boswell
  - *Alternate:* Angela Leek
- **Kansas**
  - Dr. Swapan Saha
  - Rep. Mark Schreiber
- **Michigan**
  - Greg Gothard – Past Co-Chair (2018-19)
  - *Alternate:* Waylon Sanford
- **Minnesota**
  - Rep. Pat Garofalo
  - Sen. Mike Goggin
  - Aaron Kallunki
- **Missouri**
  - Tiffany Drake – Co-Chair (2020-21)
  - *Alternate:* Justin Buckler
- **Nebraska**
  - Sen. Suzanne Geist
  - James Rashilla
- **North Dakota**
  - Sen. Dale Patten
  - Rep. Dan Ruby
- **Ohio**
  - Michael Snee – Co-Chair (2021-22)
- **South Dakota**
  - Nick Emme
- **Wisconsin**
  - Vacant
  - *Alternate:* Paul Schmidt – Past Co-Chair (2010-11)

Current MRMTC Co-Chairs

Tiffany Drake (Missouri) 2020-21
Michael Snee (Ohio) 2021-22
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.

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

<table>
<thead>
<tr>
<th>Meeting</th>
<th>Midwestern location</th>
<th>Other location</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013: Spring</td>
<td></td>
<td>Buffalo, NY (NTSF)</td>
</tr>
<tr>
<td>2013: Fall</td>
<td>Kansas City, KS</td>
<td></td>
</tr>
<tr>
<td>2014: Spring</td>
<td>Bloomington, MN (NTSF)</td>
<td></td>
</tr>
<tr>
<td>2014: Fall</td>
<td>Traverse City, MI</td>
<td></td>
</tr>
<tr>
<td>2015: Spring</td>
<td></td>
<td>Albuquerque, NM (NTSF)</td>
</tr>
<tr>
<td>2015: Fall</td>
<td>Des Moines, IA</td>
<td>Orlando, FL (NTSF)</td>
</tr>
<tr>
<td>2016: Spring</td>
<td>St. Louis, MO</td>
<td>Pittsburgh, PA (NTSF)</td>
</tr>
<tr>
<td>2016: Fall</td>
<td></td>
<td>Cincinnati, OH</td>
</tr>
<tr>
<td>2017: Spring</td>
<td>Omaha, NE (NTSF)</td>
<td>Madison, WI</td>
</tr>
<tr>
<td>2017: Fall</td>
<td></td>
<td>Arlington, VA (NTSF)</td>
</tr>
<tr>
<td>2018: Spring</td>
<td>Indianapolis, IN</td>
<td>Virtual (NTSF)</td>
</tr>
<tr>
<td>2018: Fall</td>
<td>Virtual</td>
<td></td>
</tr>
<tr>
<td>2019: Spring</td>
<td>Virtual</td>
<td></td>
</tr>
<tr>
<td>2019: Fall</td>
<td>Illinois</td>
<td></td>
</tr>
<tr>
<td>2020: Spring</td>
<td></td>
<td>Philadelphia, PA (NTSF)</td>
</tr>
<tr>
<td>2020: Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2021: Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2021: Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2022: Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2022: Fall</td>
<td>North Dakota or South Dakota</td>
<td></td>
</tr>
</tbody>
</table>
Current and Past MRMTC Work Groups

**Current**

- **Regional Tribal Engagement Work Group**
  - Collaborate with Tribal Radioactive Materials Transportation Committee (TRMTC) representatives on outreach to Tribes in Midwestern states
  - Participate in conference calls, webinars, and meetings; review/write documents; present information
  - Provide guidance to state employees and agencies on how to increase collaboration and communication with regional Tribes

- **Planning Guide Review Work Group**
  - Every odd-numbered year, members of the MRMTC assist staff to review and revise the “Part II. Recommended Practices” section in the Planning Guide for Shipments of Radioactive Material through the Midwestern States

**Past**

- **Regional Outreach Work Group**
  - Assist staff in developing informational materials to distribute to newly elected officials in late 2020
  - Develop ideas for coordinating with industry on transportation-related public information messages and materials

- **Decommissioning Guidance for States Work Group**
  - Help the MRMTC develop a checklist/brochure to assist states that will be affected by the premature decommissioning of nuclear plants in their jurisdiction
  - Prepare information for states that will be affected by the transportation of nuclear waste from the shutdown plants

- **Transportation Tabletop Workshop Work Group**
  - Plan for the organization and execution of a transportation tabletop workshop at the MRMTC’s Fall 2019 Meeting
  - Strive for the workshop to be a step-by-step, interactive event that focuses on SNF once it is in commerce
MRMTC Publications and Resources

Transportation Institutional Issues
Archive: The Post Yucca Mountain Years

Planning Guide for Shipments of Radioactive Material through the Midwestern States

MRMTC Monthly E-Newsletter

Nuclear Power Plant Decommissioning Guidance for States brochure
National Transportation Stakeholders Forum (NTSF)

The mechanism through which the U.S. Department of Energy (DOE) communicates at a national level with states and Tribes about the department’s shipments of radioactive waste and materials, as well as occasional high-visibility shipments that are nonradioactive. The purpose of the NTSF is to bring transparency, openness, and accountability to DOE’s offsite transportation activities through collaboration with state and tribal governments.

- Midwest (CSG Midwest): Midwestern Radioactive Materials Transportation Committee (MRMTC)
- Northeast (CSG Eastern Regional Conference): Northeast High-Level Radioactive Waste Transportation Task Force
- South (Southern States Energy Board (SSEB)): Radioactive Materials Transportation Committee and Transuranic Waste Transportation Working Group
- West (Western Interstate Energy Board (WIEB)): Waste Isolation Pilot Plant Transportation Advisory Group (WIPP TAG) and High-Level Radioactive Waste Committee (HLRWC)
- Tribes (National Conference of State Legislatures (NCSL)): Tribal Radioactive Materials Transportation Committee (TRMTC)
DOE Offices/Funding Sources

- **Office of Environmental Management (EM)**
  - Mission: To address the nation’s Cold War environmental legacy resulting from five decades of nuclear weapons production and government-sponsored nuclear energy research
  - Current shipments: Yes
  - Topics: Foreign spent nuclear fuel shipments, low-level waste shipments, Transportation Emergency Preparedness Program (TEPP), prospective shipments report, Office of Packaging and Transportation (OPT)
Office of Nuclear Energy (NE)

- Spent nuclear fuel and waste disposition
- Mission: To develop an integrated waste management system to transport, store, and dispose of our nation’s spent nuclear fuel and high-level radioactive waste
- Current shipments: No
- Topics: Financial assistance (180(c)), routing, transportation plan, storage and disposal
Carlsbad Field Office (CBFO)

- Mission: Provide safe, compliant, and efficient characterization, transportation, and disposal of defense-related transuranic (TRU) waste
- Current shipments: Yes
- Topics: Transuranic waste, Waste Isolation Pilot Plant (WIPP), state agreements, TRUPACT
Why it Matters

DOE-EM Shipping Routes
Why it Matters

WIPP Shipping Routes
Why it Matters

TYPICAL NAVAL SPENT FUEL SHIPPING ROUTES
Why it Matters

Possible Yucca Mountain Shipping Routes Affecting the Midwest
Why it Matters

- Establishing policy
- Developing transportation plans
- Emergency planning and preparedness
- Training and exercises
- Inspecting
- Escorting
- Monitoring
- Public outreach (media)
Midwestern Radioactive Materials Transportation Committee (MRMTC) Newcomers’ Orientation 2021

Questions?

June 14, 2021