



# Planning Guide for Shipments of Radioactive Material through the Midwestern States

Revision 4, September 2010





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# Planning Guide for Shipments of Radioactive Material through the Midwestern States

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The Council of State Governments  
Midwestern Office  
and the  
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Transportation Committee



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### Planning Guide for Shipments of Radioactive Material through the Midwestern States

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The purpose of the agreement is to identify and analyze regional issues pertaining to the transportation of DOE's radioactive waste and material. Through the agreement, CSG Midwest provides the Midwestern states with information on the technical, institutional, and regulatory issues related to radioactive material transportation. The agreement also provides the states with an opportunity to work with DOE to plan and prepare for the department's shipments that affect the Midwest.

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# TABLE OF CONTENTS

## PART I. ABOUT THE PLANNING GUIDE ..... I

Purpose.....	1
Objectives .....	1
Maintenance.....	3
Structure .....	3

## PART II. RECOMMENDED PRACTICES ..... 5

Transportation Planning.....	5
Mode and Route Selection.....	7
Carrier Selection and Driver/Crew Compliance.....	8
Packaging .....	9
Advance Notification of Shipments.....	10
Public Information .....	12
Emergency Management Considerations.....	13
Emergency Management Plan.....	13
Notification .....	14
Emergency Response .....	16
Emergency Management Assistance Compact.....	16
Assistance for the States .....	16
Inspections .....	18
Security .....	20
Safe Parking.....	21
TRANSCOM/Shipment Tracking.....	22
Weather and Road Conditions .....	22

**PART III: INFORMATION RESOURCES .....25**

Appendix A. CSG Midwestern Radioactive Materials  
Transportation Committee Roster ..... 25

Appendix B. Midwestern State Information ..... 28

    Illinois ..... 28

    Indiana ..... 31

    Iowa ..... 33

    Kansas ..... 36

    Michigan ..... 38

    Minnesota ..... 41

    Missouri ..... 44

    Nebraska..... 47

    North Dakota..... 51

    Ohio..... 53

    South Dakota..... 56

    Wisconsin..... 58

Appendix C. Midwestern State Fees..... 60

Appendix D. References ..... 64

Appendix E. On-line Resources ..... 66

Appendix F. Acronyms ..... 68

# PART I. ABOUT THE PLANNING GUIDE

## Purpose

This planning guide outlines the expectations of the Midwestern states for all shippers that transport spent nuclear fuel, high-level radioactive waste, transuranic waste, or highway route-controlled quantities (HRCQ) of radioactive material through the region. For the purposes of this document, the Midwestern region encompasses the following states: Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, and Wisconsin.

The Council of State Governments' Midwestern Office (CSG Midwest) prepared this planning guide with assistance from the Midwestern Radioactive Materials Transportation Committee (see Appendix A). CSG Midwest organized the committee in 1989 with the support of a cooperative agreement with the U.S. Department of Energy (DOE). The committee consists of 12 members appointed by the Midwestern state governors and up to 12 legislative members appointed by the chair of the Midwestern Legislative Conference. The purpose of the committee is to identify, prioritize, and work with federal agencies and appropriate stakeholders to resolve regional issues pertaining to the transport of radioactive material, with the goal of protecting the health and safety of the public in the Midwest.

## Objectives

The specific objectives of this planning guide are as follows:

- To present the Midwestern states' preferences for how shippers should conduct radioactive material shipments through the region;
- To provide shippers with a single source of information on the Midwestern states to help in planning shipping activities; and
- To improve the efficiency of the transportation process for both the Midwestern states and shippers.

The Midwestern states prepared this planning guide in response to an increasing frequency of radioactive material shipments through the Midwest and, with it, an increasing array of practices, procedures, and plans requiring the input and involvement of the states. To date, DOE has conducted most of these shipments, with varying levels of state involvement. The states recognize DOE's efforts to consolidate and better coordinate its radioactive material transportation activities, particularly through the development of a comprehensive Radioactive Material Transportation Practices Manual for use across the department. The Midwestern planning guide complements DOE's activities by providing a single resource of information on the Midwestern states to be used to develop plans for each new shipping campaign.

Because of our long-standing working relationship with DOE on radioactive material transportation planning, we expect DOE to conduct its shipments in a manner that meets the guidelines spelled out in this document. We also look to non-DOE shippers of radioactive waste and material to adopt these guidelines.

The states' approach to regulating radioactive material transportation is based on the type of material and the mode of shipment, not on the identity of the shipper or the points of origin and destination of the shipments. Although state-to-state regulations vary, a central principle of this planning guide is that all shipments of similar material should be treated in the same fashion. In other words, all shipments of contact-handled transuranic waste should be treated in the same manner — regardless of whether the shipments are headed to DOE's Waste Isolation Pilot Plant (WIPP) or to an interim facility for treatment, consolidation, or repackaging. Likewise, shipments of spent nuclear fuel should be handled in a similar fashion regardless of whether the destination is a repository, an interim storage site, or a DOE facility.

Federal guidance regarding shipment security is consistent with this approach. For example, due to the concern over the potential use of non-fissile radioactive material in the construction of



radiological dispersal devices (RDD), or “dirty bombs,” federal guidance now requires shippers to follow similar measures for HRCQ shipments as they do for spent nuclear fuel shipments. These measures include background checks for employees, advance notification, and real-time tracking, among other requirements.

## Maintenance

Every two years, the CSG Midwest staff will organize an ad hoc working group of Midwestern states to discuss lessons learned from shipping activities during the preceding two years. If necessary, the working group will propose revisions to improve the Midwest’s recommended practices in the planning guide. The Midwestern Radioactive Materials Transportation Committee will review the recommended changes and revise the planning guide accordingly. In connection with the spring and fall committee meetings, the committee will update the state-specific information contained in the planning guide. Throughout the year, members of the committee will forward updated information to the CSG Midwest staff as it becomes available. The staff will post updated information in the on-line version of the planning guide, which is available at [www.csgmidwest.org/PlanningGuide.htm](http://www.csgmidwest.org/PlanningGuide.htm).

## Structure

This guide is divided into three parts. The first part lays out the purpose and objectives of the document. Part II addresses the states’ preferences for radioactive material shipping activities that will have an impact on the Midwestern region. Part III is a compilation of various different types of information on the Midwestern states and on radioactive material transportation. Included in this section are state points of contact, emergency response plans, routes, and statutes pertaining to radioactive material transportation. The points of contact are subdivided by topical area; when in doubt as to whom to contact, shippers should seek assistance from the gubernatorial appointee to the Midwestern Radioactive Materials Transportation Committee.

The scope of this planning guide is limited to spent nuclear fuel, high-level radioactive waste, transuranic waste, and HRCQ shipments. It does not address shipments conducted for national security purposes (including naval spent nuclear fuel shipments), nor does it cover low-level radioactive waste or mixed low-level radioactive waste shipments.

In preparing this planning guide, we drew from various sources, starting with the minimum requirements spelled out in regulations of the U.S. Department of Transportation (DOT) and the U.S. Nuclear Regulatory Commission (NRC), as well as DOE orders and other federal guidance. We then added what we considered to be “best practices” based on our experiences with radioactive material shipments. We firmly believe that shippers who adhere to these recommendations will not only enhance the safety—and, ultimately, the efficiency—of their shipments; they will also increase the likelihood of public acceptance of those shipments.

As public servants, the members of the Midwestern Radioactive Materials Transportation Committee are committed to protecting the health and safety of the public in our jurisdictions. We recognize that our recommended practices, in some instances, go beyond the explicit regulatory requirements for shipments. We feel these extra-regulatory measures are both reasonable and necessary to ensure that shipments take place in a manner that is safe, secure, and merits public confidence. We also recognize the right of shippers to conduct shipments through the Midwestern region. We offer these guidelines to shippers in order to help them exercise their right in a responsible manner and with the least number of potential pitfalls.

— *CSG Midwestern Radioactive Materials Transportation Committee*

## PART II. RECOMMENDED PRACTICES

### Transportation Planning

Shippers should begin the transportation planning process two years prior to the anticipated commencement of shipments. This recommended time frame will ensure that the institutional aspects of the shipping campaign are addressed in tandem with technical ones. A first step in the transportation planning process would be to present preliminary information to the potentially affected states—either individually or, if more than one Midwestern state will be affected, through the biannual meetings of the Midwestern Radioactive Material Transportation Committee.

Coordination and consultation with the affected states should take place through the regularly scheduled meetings of the Midwestern Radioactive Material Transportation Committee, conference calls, and/or meetings involving more than one of the regional cooperative-agreement groups (when states in more than one region will be affected). Under certain circumstances, shippers might convene a separate meeting specifically for the purpose of planning a shipment or shipping campaign.

Shippers and states would benefit from the preparation of transportation plans for all spent nuclear fuel, high-level radioactive waste, transuranic waste, and HRCQ shipments through the Midwestern region. The Midwestern corridor states must review and provide input on at least one draft of each transportation plan. The review process will involve the members of the Midwestern Radioactive Materials Transportation Committee from the affected states and be coordinated through CSG Midwest. For all shipping campaigns, a final transportation plan—having undergone review by the corridor states—should be in place at least two weeks prior to the first shipment.

The timeline for finalizing the transportation plan is lengthier for long-term, large-scale shipping campaigns, such as the program to ship spent nuclear fuel and high-level radioactive waste to

a national repository or temporary storage facility. In such situations, the states should have an opportunity to review the draft plan one year prior to shipment, with the final plan in place six months prior to the first shipment. The shipper should then annually update the state-related information in the plan in consultation with CSG Midwest. The affected states must have an opportunity to provide input into any substantive changes to the plan, including route identification.

Acceptable transportation plans will adhere to the guidelines laid out in this planning guide. Elements of an acceptable transportation plan include:

- an explanation of the purpose of or need for the shipments;
- a definition of the roles and responsibilities of all parties involved;
- an emergency management plan (see the section on Emergency Management Plan);
- a communications plan, including an approach to provide information to the public and the media;
- shipping mode and carriers to be used;
- preferred route and alternatives, if any;
- a general description of security considerations, as well as a detailed security plan (the latter to be distributed only to those with a “need to know”);
- an incident or accident recovery plan, including a list of local response contractors;
- a copy of the NRC or DOE Certificate of Compliance for the shipping container (if applicable); and
- a list of lead points of contact for the shipper, the carrier, and the corridor states and tribes.

In addition to the transportation plan, which may be available to the public, the shipper will provide corridor states with a complete description of the package, its contents, and the calculated curie content and dose rates.

To the extent practicable, shippers should use as a model other transportation plans that directed successful shipping campaigns of

radioactive waste or material through the Midwestern region (see Appendix D). An example of one such plan for spent nuclear fuel shipments is the *U.S. Department of Energy Foreign Research Reactor Spent Nuclear Fuel Shipments: Transportation Plan for Motor Carrier Transport, Savannah River Site to Idaho National Engineering and Environmental Laboratory* (Rev. 6, July 2008).

Following the completion of a shipment or shipping campaign, shippers should compile the lessons learned from the experience for the purpose of improving future shipments. These lessons-learned reports should be shared with the affected states. To assist in the compilation of lessons learned, CSG Midwest will solicit input from the Midwestern states.

## Mode and Route Selection

**Mode:** Selection of the shipping mode is the responsibility of the shipper. Safety must be the primary consideration in evaluating and, ultimately, selecting a mode. The Midwestern states believe that rail shipments should take place using dedicated trains, not general freight service.

**Route:** Shippers will identify the routes for highway and rail shipments in consultation with the potentially affected states. The DOT provides guidance for highway route selection in 49 CFR 397 and for rail route selection in 49 CFR 172. Shippers should use this guidance when selecting routes for shipments. For all modes, safety must be the primary consideration in deciding routes. Shippers will consider accident rates, population exposure, and time in transit when evaluating routes.

For shipping campaigns involving spent nuclear fuel, high-level radioactive waste, or transuranic waste, at least one year prior to the first shipment, the shipper will present a proposed route or routes to the states for their consideration. If a state proposes an alternative route that would change the proposed route through one or more other states, both the proposing state and the shipper will consult with the affected state(s) prior to the alternative route being selected. The Midwestern Radioactive

Materials Transportation Committee is the appropriate forum for addressing any interstate disagreements. Proposed changes to selected routes must be presented to all potentially affected states in a timely manner for their review and consideration.

If the shipper consults with the Federal Railroad Administration (FRA) regarding potential rail routes, the shipper should also seek the input of representatives of the state rail safety programs in the potential corridor states (see Appendix B).

All highway shipments will be treated as HRCQ shipments as a matter of policy. Shippers will use only preferred routes—including the interstate system and state-designated routes selected in accordance with 49 CFR 397.103. (See Appendix B for information on state routing contacts.) As requested, CSG Midwest will lend assistance to states that seek to designate preferred routes.

## **Carrier Selection and Driver/Crew Compliance**

Shippers should select only those carriers that have exceptional performance records. Truck drivers should, at a minimum, meet the requirements in place for WIPP drivers. Specifically, drivers should have logged, in two of the last five years, at least 100,000 miles per year in semi-tractor/trailer combination over-the-road operation. For shipping campaigns of long duration, drivers should also have training in CVSA Level VI inspection procedures, TRANSCOM (if applicable), and awareness-level first responder training. NRC licensees who are shipping material that exceed the NRC's quantity of concern levels for specific isotopes are required by orders to provide background checks for site personnel and carriers.

With regard to train crews, all locomotive engineers who are assigned to shipments must meet the FRA's Locomotive Engineer Certification requirements. In addition, all members of the train crew must have received hazardous material training. Such certification and training will be verified by the FRA or FRA-certified state inspectors. Shippers should provide all train crew

members with a radioactive material awareness information safety briefing prior to shipments commencing.

Shippers will consider only carriers that earn satisfactory DOT ratings. In addition, if DOE or one of its contractors acts as the shipper, the carrier must also have satisfactory ratings under DOE's Motor Carrier Evaluation Program. When selecting carriers for DOE shipments, it is the states' expectation that DOE will abide by all applicable agreements with the states and the regional groups.

For shipping campaigns of long duration (i.e., greater than one year), the shipper will provide the carrier's draft management plan to the corridor states for their review and comment at least 45 days prior to the first shipment. CSG Midwest will coordinate the Midwestern states' review of the draft plan. The carrier management plan will address the following topics:

- quality assurance;
- emergency response;
- driver/crew training;
- recovery;
- security;
- equipment; and
- communications.

The plan will also contain a statement from the carrier regarding its commitment to adhere to the requirements of the shipper's transportation plan. In addition, the carrier management plan will address the interface between the carrier, the shipper, and state law enforcement and emergency response personnel.

## Packaging

Shippers should use NRC-approved Type B packaging for all shipments of spent nuclear fuel, high-level radioactive waste, transuranic waste, and HRCQ material. All packaging must be used in accordance with the current certificate of compliance.

For the purposes of training responders and conducting public information activities, shippers should provide the affected state agencies with general written information regarding the packaging they plan to use for shipments through the Midwestern region (e.g., DOE’s “quick facts” series).

## Advance Notification of Shipments

**Spent nuclear fuel, high-level radioactive waste, and highway route-controlled quantities of radioactive material:** Advance notification for all shipments must adhere to the NRC’s requirements codified in 10 CFR 71.97, 10 CFR 73.37, state requirements, and other guidance. Although useful for tracking shipments, TRANSCOM is not an acceptable means of distributing the NRC-required advance notification.

In the event a shipment is cancelled or the schedule changes by six hours or more, shippers must notify the governors’ designees in the affected states by telephone. As permitted by 10 CFR 73.21, the governor’s designee may share advance notification with other state agencies and local government officials on an “as needed” basis. The governors’ designees recognize their responsibility to protect safeguards information as required by 10 CFR 73.21.

In addition to the NRC-required advance notification, the shipper will provide each corridor state with a “courtesy call” a minimum of two hours prior to the shipment entering the state’s jurisdiction. Arrangements for additional calls may be worked out by the shipper, carrier, and the requesting corridor state.

**Transuranic waste:** For all shipments, DOE will distribute an annual projection of shipments to all affected states and CSG Midwest by January 31. The annual projection will be directed to the Midwestern governors and the members of the Midwestern Radioactive Materials Transportation Committee in states affected by transuranic waste shipments. The projection will show all planned shipments of transuranic waste for the upcoming 12 months. Information on the shipments will include points



of origin and destination, mode, and the number and type of packages. DOE will send the states and CSG Midwest an updated annual projection by July 31.

DOE will provide the states and CSG Midwest with a 14-day notification prior to the first five transuranic waste shipments along a particular route. In the event of a significant hiatus in shipments over a particular route (e.g., six months or more), DOE will provide 14-day notifications to the affected states prior to shipments resuming. This notification may consist of a single letter for all five shipments, provided an accurate schedule for all five shipments has been determined prior to the first shipment. The following information will be included in the 14-day notifications for transuranic waste shipments:

- name, address, and telephone number of the shipper, carrier, and receiver;
- point of origin of the shipment;
- destination for the shipment;
- description of the shipment (material, type and number of containers, mode, and route); and
- estimated date and time of departure from the point of origin.

DOE will distribute an eight-week rolling projection of shipments via e-mail to the affected states and CSG Midwest. The eight-week rolling projection will be updated as necessary. The states will receive notice of cancellations or delays in scheduled shipments through the eight-week rolling projection or through shipment-specific e-mail notifications from WIPP.

All dates in the 14-day and eight-week notices must be actual planned shipping dates, not placeholder dates. Shipments should not be scheduled until all regulatory approvals have been received.

Two hours prior to a shipment entering a state, the WIPP Central Monitoring Room or other responsible party will telephone the designated state point of contact.

To facilitate long-term planning, the Midwestern states endorse DOE's Prospective Shipment Report or, for private shipments, similar information in a format acceptable to the states as a tool for providing the states with information on upcoming shipments of spent nuclear fuel, transuranic waste, and other radioactive material.

## Public Information

As part of the transportation planning process, shippers should prepare a communications plan that defines the roles and responsibilities of the shipper, states, tribes, and other parties in providing accurate information on the shipment or shipping campaign to the media and the public in a timely manner. The plan should also identify points of contact and spokespersons of the shipper, affected states, and other parties (e.g., CSG Midwest).

States take different approaches to provide the public with information on shipments, with some responding to inquiries while others disseminate information on a routine basis along the proposed routes. Regardless of the approach, however, these state public information programs benefit from fact sheets and other information provided by the shipper. To the extent practicable, shippers should make use of currently available public information on radioactive material transportation, supplementing these materials with shipment-specific information. The fact sheets produced by DOE's former National Transportation Program are excellent models for the type of public information resources that are useful to the states. Shipment-specific fact sheets should be available for all significant shipping campaigns, with different versions prepared for different audiences (e.g., emergency responders versus the general public). Draft versions of these materials should be distributed to the states for review and comment.

The Midwestern states develop their own public information programs regarding the transport of radioactive material. In responding to inquiries from the media or the public, states

answer questions related to their role in radioactive material shipment planning. Questions regarding program-specific matters will be referred to the shipper.

Communicating with local government officials regarding shipping activities is primarily a state role. If a local government representative contacts the shipper for information, the shipper should coordinate its response with the appropriate state government agency. Questions regarding state-specific matters should be referred to the appropriate state point of contact. Shippers should provide the state points of contact with sufficient technical information to facilitate responses to inquiries from the public (e.g., through the aforementioned fact sheets).

For shipments of spent nuclear fuel, the shipper's and corridor states' public information programs will adhere to the NRC's requirements regarding the protection of safeguards information (10 CFR 73.21). If there is a specific window of opportunity for shipping (e.g., April-October), public information material should refrain from mentioning the exact months and instead refer to seasonal time frames (e.g., summer).

## Emergency Management Considerations

### *Emergency Management Plan*

Shippers should ensure that the transportation plan covering their shipments includes an adequate emergency management plan. As part of that plan, shippers should identify the following information:

- roles and responsibilities of all potentially involved parties within each state;
- the proper procedures for responding to an incident involving the shipment(s) (including emergency communications paths and the appropriate Emergency Response Guides for the material being shipped);
- a list of emergency contacts for the shipper, carrier(s), states, and, if applicable, tribes;

- a detailed description of the resources available from the shipper or the carrier to assist the incident commander during an actual emergency; and
- the shipper’s plans for conducting any necessary recovery and cleanup operations.

In addition, the shipper should ensure that the carrier’s emergency response plan is consistent with the shipper’s emergency management plan. Shipper and carrier plans should commit to following the incident command system. The Midwestern corridor states should have an opportunity to review and provide input into both the shipper’s and the carrier’s emergency management plans.

### *Notification<sup>1</sup>*

**Emergencies:** In the event of an incident or emergency, the carrier or other person will notify the local emergency response organization. After the shipper receives notification of the incident, the shipper will notify the state 24-hour contact. For an event that meets the following regulatory reporting criteria,<sup>2</sup> the shipper will notify the affected states through their 24-hour emergency numbers within one hour of receiving the initial notification:

- fatality/injury requiring immediate treatment away from scene;
- evacuation of general public of one hour or more;
- fire, breakage, spillage, or suspected radioactive contamination;
- security breach/incident;
- collision resulting in disabling damage or derailment; or
- road or facility closure or shut down exceeding one hour.

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<sup>1</sup>The notification procedures are from the DOE *Office of Environmental Management Offsite Transportation Event Notification and Reporting* (April 16, 2008), which was developed cooperatively between DOE’s Office of Packaging and Transportation and the regional groups.

<sup>2</sup>49 CFR 171.15(b) and 49 CFR 390.5.

If the shipper is notified of an event that does not clearly meet the reporting criteria listed above, the shipper will determine whether notification to state points of contact is appropriate. For example, an event that does not meet any of the above criteria but might generate public and/or media attention or could cause the dispatch of any services would warrant notification. Any uncertainty as to whether a notification should be made will be resolved by making the notification.

If an emergency notification is made to a state 24-hour emergency number, the shipper will also provide a courtesy notification by e-mail to CSG Midwest.

As it becomes available, the following information should be provided to the affected states:

- the identity of the caller and call-back telephone number;
- location of the event;
- a brief description of the event (hazards of the material being shipped, injuries, environmental releases and/or personnel exposures, protective actions implemented, protective actions recommended, and on-scene responders);
- date and time of the event; and
- other notifications that have been made, including media interest.

**Transportation operations contingencies:** These contingencies include adverse weather, natural disasters, vehicle breakdowns, travel and road/rail conditions, and unanticipated delays that could interrupt normal transportation, but do not meet the criteria for emergency notification. For spent nuclear fuel, high-level radioactive waste, and transuranic waste shipments, notification will be provided to the 24-hour emergency number or through TRANSCOM for an anticipated delay of more than two hours (or as specified in the shipping campaign-specific transportation plan).

## *Emergency Response*

State, tribal, and local governments have the primary responsibility and authority to respond to and manage emergencies within their jurisdictions. Incident command is the responsibility of the state, tribal, or local government. As required by federal regulations, the shipper will provide emergency response information on shipping papers. This information will include a 24-hour emergency telephone number for the shipper. In the event of an incident or emergency, the shipper will also provide technical assistance for emergency response should the carrier fail to do so. As requested by the incident commander or other responder, the shipper will also provide information to support public information needs.

## *Emergency Management Assistance Compact*

All of the Midwestern states are members of the Emergency Management Assistance Compact (EMAC), which is administered by the National Emergency Management Association. EMAC is a national mutual aid agreement approved by Congress in 1996. Through EMAC, states can request assistance from other states in the event of “any emergency or disaster that is duly declared by the governor of the affected state(s), whether arising from natural disaster, technological hazard, civil emergency aspects of resources shortages, community disorders, insurgency, or enemy attack.” EMAC also provides for the mutual cooperation among states in emergency-related exercises, testing, or other training activities. In the event of an emergency involving a shipment of radioactive waste or material, EMAC would be available to the states as a means of tapping assistance from other states, including those outside the region.

## **Assistance for the States**

States have the primary responsibility for protecting the public in their jurisdictions. The Midwestern states develop their own plans and procedures for responding to an incident involving radioactive material shipments. In most instances, these plans will be part of overall emergency response plans covering all types of hazards.

In addition to emergency response plans, the Midwestern states are also responsible for ensuring the safety of the public during routine transportation. Activities related to the safe, routine transportation of radioactive material include inspections, escorts, staff time for satellite tracking, contingency route designation, public information activities, and other operational activities. These activities contribute to shipment safety and increase the likelihood of public acceptance. Because they also translate into real costs for the states, shippers should anticipate the financial assistance needs some states will have in connection with their shipments.

Congress has mandated that DOE provide financial assistance to states for certain shipping campaigns. Under Section 16 of the WIPP Land Withdrawal Act, DOE is obligated to provide funding and technical assistance to corridor states to support accident prevention and emergency preparedness in connection with shipments to WIPP. In addition to providing such assistance for training and equipment, Section 16 also required DOE to provide “in-kind, financial, technical, and other appropriate assistance” to affected states for the purpose of transportation safety programs that are specific to WIPP. The Midwestern states believe that, as a matter of policy, all of DOE’s shipments of transuranic waste should be treated as “WIPP shipments.”

Section 180(c) of the Nuclear Waste Policy Act (NWPA), as amended, requires DOE to provide similar assistance to help states to prepare for shipments of spent nuclear fuel and high-level radioactive waste to a federally owned storage or disposal site when one becomes available. The Midwestern states maintain that Section 180(c) assistance should be available to the states at least three years prior to shipments. Section 180(c) funding should be predictable and should allow states the maximum flexibility to implement training programs that best meet their needs.

One limitation of Section 180(c) funding is that it is applicable only to spent nuclear fuel and high-level waste shipments to a federal facility authorized under the NWPA. The risks associated

with shipments of spent nuclear fuel are similar regardless of the shipper or the destination. As a result, the states should receive financial and technical assistance akin to that intended under Section 180(c) if affected by DOE's shipments of spent nuclear fuel to DOE or private facilities.

Another limitation of Section 180(c) funding is that DOE's interpretation would restrict the funding to training and training-related activities. The Midwestern states feel that funding should also be provided for operational expenses. The Midwestern states recognize that operational activities including inspections, escorts, and tracking contribute to safe routine transportation and enhance public acceptance of shipments.

Without federal assistance, the states would not be in a position to devote significant resources to developing state and local capabilities specifically for shipments of radioactive waste and material. This limitation applies to private shipments, as well as smaller shipping campaigns or one-time shipments conducted by DOE. As a result, some states have enacted fee systems designed to help offset their costs (see Appendix C). The assessment of fees in connection with radioactive waste shipments is permitted under the federal Hazardous Materials Transportation Uniform Safety Act. In one Midwestern state (Iowa), the shipper can avoid paying part or all of the fee if necessary activities are covered by an alternate source of funding, such as the federal assistance programs mentioned above.

## Inspections

The Midwestern states recognize the value of standardized inspection procedures that can promote reciprocity of state inspections. For truck shipments, the Commercial Vehicle Safety Alliance (CVSA) established its Level VI inspection procedures for shipments of transuranic and HRCQ radioactive material. An equivalent system does not yet exist for rail shipments; however, a working group of state and federal rail inspectors recently developed a standardized inspection process and form for use by state rail inspectors. The Midwestern states are hopeful that



these standardized procedures will eventually be established as a reciprocal program that can facilitate state inspections of rail shipments.

**Point of origin:** Shipments must be inspected by qualified state inspectors prior to departure. A radiological inspection of the package must be part of all point-of-origin inspections.

For truck shipments, CVSA-certified state inspectors will adhere to the CVSA Level VI inspection procedures or other state procedures that provide at least an equivalent level of safety. The Federal Motor Carrier Safety Administration requires that all vehicles used to transport a highway route-controlled quantity of Class 7 (radioactive) material must have a CVSA Level VI pre-trip inspection, as defined in 49 CFR Part 173.403. Shipments by truck must not be dispatched until any out-of-service criteria violations have been corrected consistent with federal regulations and CVSA Level VI criteria.

For rail shipments, motive power and equipment and hazardous material inspections will be conducted in accordance with federal regulations, the FRA's Safety Compliance Oversight Plan (Task OI-4), Association of American Railroads recommended practices, state requirements, and industry standards. All inspections of equipment and packages will be performed either by or in the presence of FRA-certified state inspectors. Rail shipments must not be dispatched until they are in compliance with the aforementioned standards and recommended practices.

**En route:** At their discretion, states on the routes for shipments may choose to inspect shipments. To encourage reciprocity, shippers of large-scale campaigns should coordinate with states to develop an approach to inspections that recognizes state laws, policies, or rules that require inspections. The inspection points should be worked out well in advance of the shipment. For truck shipments, ports of entry are generally acceptable. For rail shipments, the shipper and carrier should strive to arrange crew changes, routine inspections, etc., at a point that will accommodate the needs of state inspectors. To meet the intent of state policies

or laws, the inspection points for rail and truck shipments must be reasonably close to the state's border.

One Midwestern state (Illinois) requires en route inspections of all shipments of spent nuclear fuel, high-level radioactive waste, and transuranic waste, as well as for HRCQ shipments of radioactive material or waste when the homeland security advisory level for the transportation sector is at yellow or above. Other states may choose to conduct en route inspections at their discretion. Shipments by truck must not proceed until any out-of-service criteria violations have been corrected consistent with federal regulations and CVSA Level VI criteria. Rail shipments must not proceed until they are in compliance with all applicable FRA requirements.

## Security

The security of radioactive material shipments is a concern of the shipper, carrier, and state agencies responsible for law enforcement and emergency management. To ensure the proper coordination, shippers should communicate with the state governors' designees (see Appendix B) and other authorized personnel regarding security matters, including escorting arrangements, threat assessments, and the identification of safe parking areas.

For shipments of spent nuclear fuel, shippers must follow NRC rules, regulations, and orders for physical protection (10 CFR Part 73). These requirements include prior route approval, safeguards provisions (including escorts), and advance notification to the states. In addition, shippers must verify that carriers have met their own responsibilities under federal regulations and guidance. In the Midwestern region, one state (Illinois) requires a state escort for all shipments of spent nuclear fuel, high-level radioactive waste, and transuranic waste, as well as for HRCQ shipments of radioactive material or waste when the homeland security advisory level for the transportation sector is at yellow or above. Other states may choose to escort shipments as a matter of policy or to meet the intent of the NRC's orders.

Shippers should seek the input of state law enforcement officials and the governors' designees under 10 CFR 73.37 on security plans for shipments. Shippers should also consider using state police or other qualified state agency escorts for their shipments.

## Safe Parking

The selection of safe parking areas will be coordinated with the states and tribes through which the shipments will pass. Security plans for the shipping campaigns should identify safe parking areas and avoidance criteria for selecting other safe parking locations, in the event the driver/crew cannot reach the pre-designated locations. Safe parking areas should be selected based on the desirability of a particular type of parking area and the ability of the driver/crew to reach the parking area. In addition, safe parking areas should achieve the following objectives:

- provide adequate separation from vehicles carrying hazardous material;
- facilitate required security (e.g., lighting); and
- provide adequate driver/crew services.

The shipper's security plan should identify safe parking areas on both sides of the borders between states.

State law enforcement personnel have the authority to direct shipments to specific parking areas. If state officials determine that a route deviation rather than safe parking is necessary, they can inform the driver or carrier through direct contact or through TRANSCOM. If a route deviation is deemed necessary by a state, that state must coordinate with any other state that will be affected by the route deviation.

The following avoidance factors should be applied in selecting a suitable safe parking location. It may not be possible to locate a parking site that meets all of the criteria listed. Nevertheless, the carrier should attempt to avoid the following:

- highly populated areas;
- heavily industrialized areas (e.g., refineries);
- hospitals and schools;
- areas with difficult access (e.g., no room for fire equipment);
- crowded parking areas (e.g., shopping malls and rest areas);
- residential areas;
- highway shoulders (for truck shipments); and
- areas with numerous pedestrians.

For shipments by truck, the carrier must not park on or within five feet of the traveled portion of a public street or highway except for brief periods when the necessities of operation require the vehicle to be parked and make it impractical to park the vehicle in any other place.

## **TRANSCOM/Shipment Tracking**

Shippers should use TRANSCOM to track all shipments of spent nuclear fuel, high-level radioactive waste, and transuranic waste. In the event of operational problems, the shipper should follow the established backup procedures in the TRANSCOM users' manual. Shippers should arrange for corridor states to have access to TRANSCOM from the point of origin until one hour after the shipment has left the state's jurisdiction.

If the TRANSCOM system is experiencing operational problems beyond those associated with individual users, shipments should not depart without the concurrence of all affected states.

For HRCQ shipments, shippers should use TRANSCOM or another commercially available satellite tracking system to track their shipments.

## **Weather and Road Conditions**

Shipments should not travel during severe weather conditions or when adverse weather or road conditions make travel hazardous. Severe weather conditions include the following storm warnings issued by the National Weather Service:

- winter storm warning;
- heavy snow warning;
- blizzard warning;
- blowing and drifting snow;
- freezing rain/drizzle;
- ice storm warning;
- sleet warning;
- dense fog advisory;
- tornado warning;
- severe thunderstorm warning;
- flash flood warning;
- river flood warning; and
- high wind warning.

Adverse weather conditions are those that prompt travel advisories cautioning against any unnecessary travel. Because of the likelihood of severe winter weather resulting in shipment delays, as a general rule, shipments of spent nuclear fuel, high-level radioactive waste, transuranic waste, and HRCQ material should not take place in the Midwest in December or January.

In the event of a significant delay (e.g., greater than two hours), shippers should notify the affected states of the delay and the carrier's response.

**Pre-departure:** Prior to dispatching a shipment, the shipper and driver(s) should agree that weather and road conditions are acceptable. Before making the decision to dispatch a shipment, the shipper will consider current weather conditions, weather forecasts, and projected road conditions at the point of origin and along the entire route. A shipment should not be dispatched if severe weather conditions are forecast to occur anywhere along the route at the time the shipment is expected to be in that area.

For DOE shipments of transuranic waste, state personnel will have the opportunity to participate in the pre-departure conference calls for each shipment. The decision that acceptable conditions exist should be documented in writing or through entry into a computer data base.

**En route:** The shipper and/or the carrier will monitor weather conditions while the shipment is in transit. Shipments should not travel when adverse weather or road conditions along routes make travel hazardous. States and tribes may monitor the status of shipments using TRANSCOM. When severe weather conditions or adverse road conditions occur unexpectedly, law enforcement may divert the shipment to safe parking or may contact the shipper to suggest that the shipment use an alternate route. Safe parking locations will be selected in accordance with this planning guide's section on Safe Parking. If a state deems it necessary to divert a shipment to an alternate route, the state must coordinate with any other state(s) that will be affected by the route deviation.

## PART III. INFORMATION RESOURCES

### APPENDIX A

#### CSG Midwestern Radioactive Materials Transportation Committee Roster

##### **ILLINOIS**

Joe Klinger  
Interim Director, Division of Nuclear  
Safety  
Illinois Emergency Management Agency  
1035 Outer Park Drive  
Springfield, IL 62704-4491  
(217) 785-9868  
(217) 524-4724 (fax)  
joe.klinger@illinois.gov

##### Alternate:

Tim Runyon  
Bureau of Environmental Safety  
Division of Nuclear Safety  
Illinois Emergency Management Agency  
1035 Outer Park Drive  
Springfield, IL 62704  
(217) 782-1322  
(217) 524-6417 (fax)  
tim.runyon@illinois.gov  
*Past Chair, 2002-2003*

##### **INDIANA**

Laura Dresen  
CBRNE Programs Section Chief  
Indiana Department of Homeland  
Security  
302 W. Washington Street, E-208  
Indianapolis, IN 46204  
(317) 234-6510  
(317) 234-7234 (fax)  
ldresen@dhs.in.gov

The Honorable Dennis Kruse  
Indiana State Senator  
200 W. Washington Street  
Indianapolis, IN 46204  
(317) 232-9400

##### **IOWA**

The Honorable Steven Olson  
Iowa State Representative  
State Capitol  
Des Moines, IA 50319  
steven.olson@legis.state.ia.us

Melanie Rasmussen  
Chief, Bureau of Radiological Health  
Iowa Department of Public Health  
321 E. 12th Street  
Des Moines, IA 50319  
(515) 281-3478  
(515) 281-4529 (fax)  
mrasmuss@idph.state.ia.us  
*Co-Chair, 2009-2010*

##### **KANSAS**

Jennifer Clark  
Section Chief, Technological Hazards  
Kansas Division of Emergency  
Management  
2800 S.W. Topeka Boulevard  
Topeka, KS 66611  
(785) 274-1394  
jennifer.marie.clark@us.army.mil

The Honorable Carl Holmes  
Kansas State Representative  
State Capitol Room 142 West  
Topeka, KS 66612  
(620) 624-7361  
repcarl@aol.com

## **MICHIGAN**

Alternate:

Sgt. Susan Fries, Commander  
NSP/Traffic Safety Division  
333 S. Grand Avenue  
P.O. Box 30634  
Lansing, MI 48913  
(517) 336-6580  
(517) 333-4414 (fax)  
friess@michigan.gov

## **MINNESOTA**

The Honorable Amy Koch  
Minnesota State Senator  
100 Rev. Dr. Martin Luther King Jr.  
Boulevard  
State Office Building, Room 115  
St. Paul, MN 55155-1206  
(651) 296-5981  
sen.amy.koch@senate.mn

Kevin C. Leuer  
Director, Preparedness Branch  
Minnesota Department of Public Safety  
Division of Homeland Security and  
Emergency Management  
444 Cedar Street, Suite 223  
St. Paul, MN 55101-6223  
(651) 201-7406  
(651) 296-0459 (fax)  
kevin.leuer@state.mn.us  
*Past Co-Chair, 2008-2009*

## **MISSOURI**

Alternate:

Jane Beetem  
Planner  
Missouri Department of Natural  
Resources  
P.O. Box 176  
Jefferson City, MO 65102  
(573) 751-3195  
(573) 751-7627 (fax)  
jane.beetem@dnr.mo.gov  
*Past Co-Chair, 2007-2008*

## **NEBRASKA**

The Honorable LeRoy Loudon  
Nebraska State Senator  
State Capitol  
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(402) 471-2725  
llouden@leg.ne.us

Jonathan (Jon) Schwarz  
Emergency Preparedness Lead  
Nebraska Emergency Management  
Agency  
1300 Military Road  
Lincoln, NE 68508  
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(402) 471-7433 (fax)  
jon.schwarz@nebraska.gov

## **NORTH DAKOTA**

David Glatt  
Chief, Environmental Health Section  
North Dakota Department of Health  
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dglatt@nd.gov

## **OHIO**

The Honorable Steve Buehrer  
Ohio State Senator  
Statehouse  
Columbus, OH 43215  
(614) 466-8150  
sd01@mailr.sen.state.oh.us

Robert Owen  
Chief, Bureau of Radiation Protection  
Ohio Department of Health  
246 N. High Street  
Columbus, OH 43215  
(614) 644-2727  
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robert.owen@odh.ohio.gov  
*Past Co-Chair, 2006-2007*



**SOUTH DAKOTA**

Joe Nadenicek  
Staff Attorney  
Department of Environment and  
Natural Resources  
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Pierre, SD 57501  
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(605) 773-6035 (fax)  
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**WISCONSIN**

Alternate:  
Paul Schmidt  
Chief, Radiation Protection Section  
Dept. of Health Services  
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Madison, WI 53701-2659  
(608) 267-4792  
(608) 267-3695 (fax)  
paul.schmidt@wisconsin.gov  
*Co-Chair, 2010-2011*

The Honorable James Soletski  
Wisconsin State Representatives  
P.O. Box 8953  
Madison, WI 53708  
(608) 266-0485  
rep.soletski@legis.wi.gov

# APPENDIX B

## Midwestern State Information

### ILLINOIS

#### Points of contact:

##### 24-hour emergency contact:

Illinois Emergency Management Agency  
(Radiological Duty Officer)  
(217) 782-7860

##### CSG Midwestern Radioactive Materials Transportation Committee appointees:

Joe Klinger  
Interim Director  
Illinois Emergency Management Agency  
1035 Outer Park Drive  
Springfield, IL 62704-4491  
(217) 785-9868  
(217) 524-4724 (fax)  
joe.klinger@illinois.gov

##### Alternate:

Tim Runyon  
Bureau of Environmental Safety  
Division of Nuclear Safety  
Illinois Emergency Management Agency  
1035 Outer Park Drive  
Springfield, IL 62704  
(217) 782-1322  
(217) 524-6417 (fax)  
tim.runyon@illinois.gov

##### CVSA Level VI-certified motor carrier inspectors:

Lieut. David Beasley  
Illinois State Police  
Bureau of Motor Carrier Safety  
500 Iles Park Place, Suite 104  
Springfield, IL 62718  
(217) 558-4060  
(217) 524-2319 (fax)  
david\_beasley@isp.state.il.us

Numerous certified inspectors

##### Emergency management:

Tim Runyon  
Bureau of Environmental Safety  
Division of Nuclear Safety  
Illinois Emergency Management Agency  
1035 Outer Park Drive  
Springfield, IL 62704  
(217) 782-1322  
(217) 524-6417 (fax)  
tim.runyon@illinois.gov

##### FRA-certified rail inspectors:

Mike Stead  
Railroad Safety Program Administrator  
Illinois Commerce Commission  
527 E. Capitol Avenue  
P.O. Box 19280  
Springfield, IL 62794-9280  
(217) 557-1285  
(217) 557-5986 (fax)  
mstead@icc.illinois.gov

Hazardous Materials: Bradley Cachera,  
Rick Hand

Operating Practices: Bob Wagoner

Signal & Train Control: Mitch Hibsichman,  
David Endsley, David Ohlfs

Track: Mark S. Perry, Mike Sullivan

##### Governor's designee for receiving advance notice of shipments (10 CFR Parts 71 and 73):

Joe Klinger  
Interim Director  
Illinois Emergency Management Agency  
1035 Outer Park Drive  
Springfield, IL 62704-4491  
(217) 785-9868  
(217) 782-7860 (24 hours)  
(217) 524-4724 (fax)  
(217) 782-7774 (24-hour fax)  
joe.klinger@illinois.gov

Public information:

Patti Thompson  
Public Information Bureau  
Central Management Services  
Stratton Building, Room 611  
Springfield, IL 62704  
(217) 558-0546  
patti\_thompson@cms.state.il.us

Road and travel information:

Department of Transportation, Station I  
(217) 782-2937  
(800) 452-4368

Routing:

Ed Hoover  
Illinois Department of Transportation  
1340 North Ninth Street  
P.O. Box 19212  
Springfield, IL 62794-9245  
(217) 785-1181  
(217) 782-9159 (fax)

Security:

Lieut. David Beasley  
Illinois State Police  
Bureau of Motor Carrier Safety  
500 Iles Park Place, Suite 104  
Springfield, IL 62718  
(217) 558-4060  
(217) 524-2319 (fax)  
david\_beasley@isp.state.il.us

TRANSCOM users:

Kelly Horn  
Bureau of Environmental Safety  
Division of Nuclear Safety  
Illinois Emergency Management Agency  
1301 Knotts Street  
Springfield, IL 62704  
(217) 786-6398  
General User

Tim Runyon  
Bureau of Environmental Safety  
Division of Nuclear Safety  
Illinois Emergency Management Agency  
1035 Outer Park Drive  
Springfield, IL 62704  
(217) 782-1322  
(217) 524-6417 (fax)  
tim.runyon@illinois.gov  
Superuser, State Agency Representative

**Designated alternative route(s):**

None

**Emergency Response Plan:**

Illinois Plan for Radiological Accidents  
(Volume X, Transportation Accident Plan)

**Escorts:**

Required for all shipments of spent nuclear fuel, HLW, and transuranic waste (covered by fee). Escorts are also required for certain HRCQ shipments when under Yellow or greater homeland security advisory levels.

[420 ILCS 5/8 subparagraph (a)9]

**Fees/Permits:**

*Spent fuel, HLW, TRU waste, and HRCQ:*

Truck: \$2,500 per truck to be paid by the shipper, with a surcharge of \$25 per mile for each truck for every mile over 250 miles.

Rail: \$4,500 for the first cask, \$3,000 for each additional cask to be paid by the shipper.

[420 ILCS 5/4 subparagraphs 10 and 11]

## Inspections:

Required for all shipments of spent fuel, HLW, and transuranic waste (covered by fee). Inspections are also required for certain HRCQ shipments when under Yellow or greater homeland security advisory levels.

[420 ILCS 5/8 subparagraph (a)9]

## Key events and holidays:

The dates of key events change annually. Events, such as the Illinois State Fair, or other route-specific issues will be addressed on a case-by-case basis during route planning meetings.

## Safe parking considerations:

Illinois does not currently have designated safe parking areas for HRCQ shipments of radioactive material. The state reserves the right to designate safe parking areas on a shipment-specific basis.

## Statutes pertaining to radioactive materials transportation:

Commercial Transportation Law (Illinois Revised Statutes, chapter 625, para. 5/18c et seq.)

Hazardous Materials Emergency Act (Illinois Revised Statutes, chapter 430, para. 50/01 et seq.)

Hazardous Materials Transportation Act (Illinois Revised Statutes, chapter 430, para. 30/1 et seq.)

Illinois Nuclear Safety Preparedness Act (Illinois Revised Statutes, chapter 420, para. 5/1 - 5/11)

Nuclear Facility Safety Act (Illinois Administrative Code, title 32, part 341)

Radiation Protection Act (Illinois Revised Statutes, chapter 420. - para. 40/1 - 40/45)

## INDIANA

### Points of contact:

#### 24-hour emergency contact:

Indiana Dept. of Homeland Security  
(800) 669-7362

#### CSG Midwestern Radioactive Materials Transportation Committee appointees:

Laura Dresen  
CBRNE Programs Section Chief  
Indiana Department of Homeland Security  
302 W. Washington Street, E-208  
Indianapolis, IN 46204  
(317) 234-6510  
(317) 234-7234 (fax)  
ldresen@dhs.in.gov

The Honorable Dennis Kruse  
Indiana State Senator  
200 W. Washington Street  
Indianapolis, IN 46204  
(317) 232-9400

#### CVSA Level VI-certified motor carrier inspectors:

Capt. Wayne Andrews  
Indiana State Police  
5252 Decatur Boulevard, Suite J  
Indianapolis, IN 46241  
(317) 615-7373  
wandrews@isp.in.gov

#### Emergency management:

Indiana Dept. of Homeland Security  
(800) 669-7362 (24 hour)

#### FRA-certified rail inspectors:

None

#### Governor's designee for receiving advance notice of shipments (10 CFR Parts 71 and 73):

Superintendent Paul Whitesell, Ph.D.  
Indiana State Police  
Commercial Motor Vehicle Enforcement Division  
Indiana Government Center North  
100 N. Senate Avenue, 3rd Floor  
Indianapolis, IN 46204  
(317) 232-8248  
(317) 232-8248 (24 hours)  
(317) 317-2350 (fax)

#### Public information:

John Erickson  
Senior Public Information Officer  
Indiana Dept. of Homeland Security  
Indiana Government Center South  
302 W. Washington, Room E208  
Indianapolis, IN 46204-2760  
(317) 234-4214  
(317) 690-4698 (24 hours)  
(317) 232-3895 (fax)  
jerickson@dhs.in.gov

#### Road and travel information:

Indiana Dept. of Homeland Security  
(800) 669-7362 (24 hour)

#### Routing:

Mike Cline  
Indiana Department of Transportation  
Indiana Government Center North  
100 N. Senate Avenue, Room N758  
Indianapolis, IN 46204  
(317) 232-5525  
(317) 232-0238 (fax)  
mcline@indot.in.gov

#### Security:

Capt. Wayne Andrews  
Indiana State Police  
CVED  
5252 Decatur Boulevard  
Indianapolis, IN 46241  
(317) 615-7373  
(317) 232-2350 (fax)  
wandrews@isp.in.gov

### TRANSCOM users:

Rex Bowser

Indiana State Department of Health

(317) 351-7190

rbowser@isdh.in.gov

*Superuser*

Dave Daugherty

Indiana Department of Environmental

Management

(317) 308-3030

ddaugherty@idem.in.gov

*Superuser*

Laura Dresen

Indiana Department of Homeland

Security

(317) 234-6510

ldresen@dhs.in.gov

*Superuser*

## **Designated alternative route(s):**

None

## **Emergency Response Plan:**

Indiana Emergency Response Plan for the Transportation of High-Level Radioactive Materials (Indiana Code 10-14-8-4)

Memorandum of Agreement between the Indiana State Department of Health and the Indiana Department of Homeland Security

Radiological Protection Systems Management Plan, Radiological Emergency Plan Annex C

## **Escorts:**

Not required

## **Fees/Permits:**

*Spent fuel and HLW:*

Truck: \$2,500 for each shipment.

Rail: \$4,500 for the first cask, and \$3,000 for each additional cask.

*LLW:* \$100 per truck or train.

[IC 10-14-8-3]

## **Inspections:**

Not required

## **Key events and holidays:**

Indianapolis 500 Race (last Sunday in May)

Brickyard 400 (July or August)

National Holidays

## **Safe parking considerations:**

First: Highway Department regional facilities along transportation corridors

Second: National Guard Armories

Third: Driver selects safe parking area based on areas to avoid (contact IDHS to obtain from State Police)

Under no circumstances would a route change be preferable to parking.

## **Statutes pertaining to radioactive materials transportation:**

Indiana Motor Carrier Act (Indiana Code Ann. Sections 8-2.1-18-36 et seq.)

Indiana Radiation Control Act (Indiana Code Ann. Sections 16-41-35-1 et seq.)

Transportation of Radioactive Waste (Indiana Code Ann. Section 10-11-2-26 and 10-14-8)

# IOWA

## Points of contact:

### 24-hour emergency contact:

Iowa State Radio (Request EMD Duty Officer)  
(515) 323-4360

### CSG Midwestern Radioactive Materials Transportation Committee appointees:

The Honorable Steven Olson  
Iowa State Representative  
State Capitol  
Des Moines, IA 50319  
steven.olson@legis.state.ia.us

Melanie Rasmussen  
Chief, Bureau of Radiological Health  
Iowa Department of Public Health  
321 E. 12th Street  
Des Moines, IA 50319  
(515) 281-3478  
(515) 371-2255 (cell)  
(515) 281-4529 (fax)  
mrasmuss@idph.state.ia.us

### CVSA Level VI-certified motor carrier inspectors:

Iowa Department of Transportation  
Kirk Authier  
Dean House  
Davie Drummond  
Jay Thornton  
Joe Farnsworth  
Jason Schnorenberg  
Ron Yarkosky  
Ron Caudle

### Emergency management:

Joyce Flinn  
Chief, Bureau of Readiness and Response  
Iowa Homeland Security and Emergency Management Division  
7105 N.W. 70th Avenue  
Camp Dodge, W-4  
Johnston, IA 50131  
(515) 323-4313  
(515) 729-4691 (cell)  
(515) 725-3260 (fax)  
joyce.flinn@iowa.gov

### FRA-certified rail inspectors:

Tammy Nicholson  
Rail Transportation Director  
Iowa Department of Transportation  
800 Lincoln Way  
Ames, IA 50010  
(515) 239-1052  
tamara.nicholson@dot.iowa.gov

Track: Jeff Secora

### Governor's designee for receiving advance notice of shipments (10 CFR Parts 71 and 73):

David L. Miller  
Administrator  
Homeland Security and Emergency Management Division  
7105 N.W. 70th Avenue  
Camp Dodge, W-4  
Johnston, IA 50131  
(515) 725-3231  
(515) 725-3231 (24 hours)  
(515) 725-3260 (fax)  
david.miller@iowa.gov

### Public information:

Polly Carver-Kimm  
Public Informations Officer  
Iowa Department of Public Health  
321 E. 12th Street  
Des Moines, IA 50319  
(515) 281-6693  
pcarver@idph.state.ia.us

Road and travel information:  
Highway Patrol: (515) 288-1047

Routing:  
Captain Dean House  
Iowa Department of Transportation  
Office of Motor Vehicle Enforcement  
P.O. Box 10473  
Des Moines, IA 50306 -0473  
(515) 237-3278  
(515) 967-0314 (fax)  
dean.house@dot.iowa.gov

Security:  
Captain Dean House  
Iowa Department of Transportation  
Office of Motor Vehicle Enforcement  
P.O. Box 10473  
Des Moines, IA 50306-0473  
(515) 237-3278  
(515) 967-0314 (fax)  
dean.house@dot.iowa.gov

TRANSCOM users:  
Randy Dahlin  
Iowa Department of Public Health  
321 E. 12th Street  
Des Moines, IA 50319  
(515) 281-0419  
(515) 281-4529 (fax)  
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General User

Nancy Farrington  
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321 E. 12th Street  
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Superuser, State Agency Representative

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Starc Armory  
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(515) 323-4375  
(515) 323-4379 (fax)  
ray@dps.state.ia.us  
General User

## Designated alternative route(s):

I-80 and I-680 in lieu of I-29 in all directions through the Council Bluffs area.

I-80 and I-35 in lieu of I-235 through the Des Moines area

## Emergency Response Plan:

Iowa Emergency Response Plan Part IV: The Iowa Radiological Emergency Response Plan (Section A: Non-Power Reactor Incidents)

## Escorts:

Required for spent fuel, transuranic waste, and HLW shipments

## Fees/Permits:

*Spent fuel, HLW, TRU waste, and HRCQ:*  
Truck: \$1,800 per cask for each shipment, with a surcharge of \$20 per mile for every mile over 250 miles traveled for the first truck of every single-cask truck shipment.

Rail: \$1,300 for the first cask and \$125 for each additional cask.

*Low-level waste:* \$175 per truck or train.

[Iowa Administrative Code 641—38.8(11)]



## **Inspections:**

As needed

## **Key events and holidays:**

None

## **Safe parking considerations:**

- First: Camp Dodge, Johnson, IA
- Second: State Maintenance Facilities along I-80, I-29, and I-35
- Third: State scales along I-80, I-29, and I-35

Public rest areas are not appropriate parking areas. Emergency circumstances may require a route change.

## **Statutes pertaining to radioactive materials transportation:**

Department of Transportation Law  
(Iowa Code 307.26-307.27)

Iowa Code Chapter 136C  
Iowa Administrative Code 641—  
38.8(11)

Motor Carrier Safety Law (Iowa Code  
321.449-321.450)

Nuclear Transportation Regulations  
(Iowa Environmental Protection  
Commission)

Radioactive Waste Management Law  
(Iowa Code 455B.331-455B.340)

Railroad Safety Regulations (Iowa  
Administrative Code chapters 800-830)

Transportation Law (Iowa Code  
321.266)

## KANSAS

### Points of contact:

#### 24-hour emergency contact:

Kansas Division of Emergency  
Management  
(Operator on Duty)  
(800) 275-0297

#### CSG Midwestern Radioactive Materials Transportation Committee appointees:

Jennifer Clark  
Section Chief, Technological Hazards  
Kansas Division of Emergency  
Management  
2800 S.W.Topeka Boulevard  
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(785) 274-1394  
jennifer.marie.clark@us.army.mil

The Honorable Carl Holmes  
Kansas State Representative  
State Capitol Room 142 West  
Topeka, KS 66612  
(620) 624-7361  
repcarl@aol.com

#### CVSA Level VI-certified motor carrier inspectors:

None

#### Emergency management:

Kansas Division of Emergency  
Management  
(800) 275-0297

#### Emergency response:

Tom Conley  
Section Chief, Radiation & Asbestos  
Control  
Kansas Department of Health and  
Environment  
1000 SW Jackson  
Topeka, KS 66612  
(785) 296-1565  
tconley@kdheks.gov

#### FRA-certified rail inspectors: None

#### Governor's designee for receiving advance notice of shipments (10 CFR Parts 71 and 73):

Jennifer Clark  
Section Chief, Technological Hazards  
Kansas Division of Emergency  
Management  
2800 S.W.Topeka Boulevard  
Topeka, KS 66611  
(785) 274-1394  
(785) 296-3176 (24 hours)  
(785) 274-1426 (fax)  
jennifer.marie.clark@us.army.mil

#### Public information:

Sharon Watson  
Public Information/Relations Director  
Kansas Adjutant General's Department  
Public Affairs Office  
2800 S.W.Topeka Boulevard  
Topeka, KS 66611-1287  
(785) 274-1192  
(785) 274-1622 (fax)  
sharon.watson3@us.army.mil

#### Radiological health:

Tom Conley  
Section Chief, Radiation & Asbestos  
Control  
Kansas Department of Health and  
Environment  
1000 SW Jackson  
Topeka, KS 66612  
(785) 296-1565  
tconley@kdheks.gov

#### Road and travel information: (800) 511-KDOT (5368)

**Routing:**

Jennifer Clark  
Section Chief, Technological Hazards  
Kansas Division of Emergency  
Management  
2800 S.W. Topeka Boulevard  
Topeka, KS 66611  
(785) 274-1394  
jennifer.marie.clark@us.army.mil

**Security:**

Capt. Eric Pippin  
Emergency Operations Coordinator  
Kansas Highway Patrol  
122 S.W. 7th Street  
Topeka, KS 66603-2847  
(785) 296-6800  
(785) 296-5956 fax  
epippin@khp.ks.gov

**TRANSCOM user:**

None

**Designated alternative route(s):**

None

**Emergency Response Plan:**

Kansas Response Plan

**Escorts:**

Not required

**Fees/Permits:**

Maximum \$250 for hazardous materials shipments

**Inspections:**

Not required

**Key events and holidays:**

Kansas Speedway NASCAR race events

**Safe parking considerations:**

None

**Statutes pertaining to radioactive materials transportation:**

Motor Carrier Regulations (Kansas Corporation Commission, Kansas Statutes Ann. 66-1129)

Nuclear Energy Development and Radiation Control Act (Kansas Statutes Ann. 48-1601 et seq.)

Radioactive Waste Transportation Prenotification Law

Transportation Law (Kansas Statutes Ann. Section 8-1746)

Transportation of Radioactive Materials (Kansas Administrative Rules Section 28-35-189a et seq.)

## MICHIGAN

### Points of contact:

#### 24-hour emergency contact:

Special Operations Division  
Michigan State Police  
(517) 241-8000

#### CSG Midwestern Radioactive Materials

##### Transportation Committee appointees:

Alternate:

Sgt. Susan Fries, Commander  
NSP/Traffic Safety Division  
333 S. Grand Avenue  
P.O. Box 30634  
Lansing, MI 48913  
(517) 336-6580  
(517) 333-4414 (fax)  
friess@michigan.gov

#### CVSA Level VI-certified motor carrier inspectors:

Michigan State Police  
Transportation Safety Division  
Hazardous Materials & Investigations  
Unit

Sgt. Susan Fries, Commander  
(517) 336-6580  
(517) 333-4414 (fax)  
friess@michigan.gov

MC Inv. William Clark  
MC Inv. Paul Clift  
MC Inv. Kevin Hogan  
MC Inv. Jeffrey A. Snyder  
MC Inv. Rick Dill  
MC Inv. Bill Clark  
MCO Jeff Boller  
MCO Paul Oles  
MCO Jeff Lietzow  
MCO Brian Ball

#### Emergency management:

Captain W. Thomas Sands  
Commander  
Emergency Management & Homeland  
Security Division  
Michigan State Police  
P.O. Box 30636  
Lansing, MI 48909-8136  
(517) 333-5043  
(517) 241-8000 (24 hours)  
(517) 333-4987 (fax)  
sandst@michigan.gov

James Porcello  
Emergency Management & Homeland  
Security Division  
Michigan State Police  
(517) 336-6435  
(517) 333-4987 (fax)  
porcelloj@michigan.gov

#### FRA-certified rail inspectors:

None

#### Governor's designee for receiving advance notice of shipments (10 CFR Parts 71 and 73):

Captain Gary Nix, Commander  
Special Operations Division  
Michigan State Police  
714 S. Harrison  
East Lansing, MI 48823  
(517) 336-6105  
(517) 241-8000 (24 hours)  
(517) 336-6211 (fax)

#### Public information:

Nicole Lisabeth  
Emergency Management & Homeland  
Security Division  
Michigan State Police  
(517) 336-6464  
(517) 333-4987 (fax)  
Lisabethn@michigan.gov

#### Road and travel information:

Construction: (888) 305-PAVE (7283)  
AAA Hotline: (800) 411-4823

**Routing:**

Kirk Steudle  
Director  
Michigan Department of Transportation  
425 West Ottawa  
P.O. Box 30050  
Lansing, MI 48909  
(517) 373-2114  
(517) 373-6457 (fax)

**Security:**

Captain Gary Nix  
Commander  
Special Operations Division  
Michigan State Police  
714 S. Harrison Road  
East Lansing, MI 48823  
(517) 336-6105  
(517) 241-8000 (24 hours)  
(517) 336-6211 (fax)

**TRANSCOM users:**

Rich Law  
Michigan State Police  
Emergency Management & Homeland  
Security Division  
4000 Collins Road  
P.O. Box 30636  
Lansing, MI 48909-8136  
(517) 333-5027  
(517) 333-4987 (fax)  
lawr@michigan.gov  
*General User, State Agency Representative*

Thomas A. Newell  
Facilities Engineer  
Michigan State Police  
Emergency Management & Homeland  
Security Division  
4000 Collins Road  
P.O. Box 30636  
Lansing, MI 48909-8136  
(517) 333-5026  
(517) 333-4987 (fax)  
*General User*

**Designated alternative route(s):**

US 23 south of Ann Arbor in lieu of I-94, I-275, and I-75

**Emergency Response Plan:**

Michigan Emergency Management Plan

**Escorts:**

Considered on a case-by-case basis

**Fees/Permits:**

FMCSA HM Safety Permit or another document showing the GHM Safety Permit number must be carried in all motor vehicles transporting highway route controlled quantities of radioactive materials.

**Inspections and routing:**

PA 181 of 1963 and Federal Motor Carrier Safety Regulations require a written route plan for shipments by highway of radioactive materials for which hazardous materials placards are required and further requires that highway route controlled quantities of radioactive materials shipped by highway follow state designated preferred routes and obtain a point of origin CVSA Level VI inspection as part of the HM safety Permit Process.

**Key events and holidays:**

None

**Safe parking considerations:**

None

## **Statutes pertaining to radioactive materials transportation:**

Department of Environmental Quality  
Radiation Protection Regulations  
(R325.5001 et seq.)

Radiation Control Act (Michigan Comp.  
Laws Ann. Sections 333.13501 et seq.)

## MINNESOTA

### Points of contact:

#### 24-hour emergency contact:

Minnesota Duty Officer  
(800) 422-0798 (Greater Minnesota only)  
(651) 649-5451 (Minneapolis-St. Paul Metro Area and outside the State of Minnesota)  
TDD: (651) 297-5353 (Minneapolis-St. Paul Metro Area)

NOTE: Minnesota statutes sections 115E.09 and 299K.07 require that the Minnesota Duty Officer be called to request state assistance and to report a petroleum or hazardous material spill (including high-level radiological waste).

#### CSG Midwestern Radioactive Materials Transportation Committee appointees:

The Honorable Amy Koch  
Minnesota State Senator  
100 Rev. Dr. Martin Luther King Jr. Boulevard  
State Office Building, Room 115  
St. Paul, MN 55155-1206  
(651) 296-5981  
sen.amy.koch@senate.mn

Kevin C. Leuer  
Director, Preparedness Branch  
Minnesota Department of Public Safety  
Division of Homeland Security and Emergency Management  
444 Cedar Street, Suite 223  
St. Paul, MN 55101-6223  
(651) 201-7406  
(651) 296-0459 (fax)  
kevin.leuer@state.mn.us

#### CVSA Level VI-certified motor carrier inspectors:

Jim Fox  
Hazardous Materials Specialist  
Minnesota Dept. of Transportation  
Oakdale DOT Shop  
3485 Hadley Ave. N.  
Oakdale, MN 55128  
(651) 366-4348  
jim.fox@state.mn.us

Kevin Kampa  
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Minnesota Dept. of Transportation  
Oakdale DOT Shop  
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Randy Kudzia  
Hazardous Materials Specialist  
Minnesota Dept. of Transportation  
Golden Valley DOT Shop  
2055 N. Lilac Dr.  
Golden Valley, MN 55422  
(651) 366-5212  
randy.kudzia@state.mn.us

Eric Sundby  
Minnesota State Patrol – Commercial Vehicle Enforcement  
Red River Scale  
41 ½ St. South  
Moorhead, MN 56560  
(218) 287-5069  
eric.sundby@state.mn.us

Randy Zahn  
Minnesota State Patrol – Commercial Vehicle Enforcement  
1131 Mesaba Ave  
Duluth, MN 55811  
(218) 591-3286 cell  
randy.zahn@state.mn.us

Dennis Zempel  
Minnesota State Patrol – Commercial  
Vehicle Enforcement  
2900 48th St. NW  
Rochester, MN 55901  
(507) 458-6564 cell  
dennis.zempel@state.mn.us

Emergency management:

Kevin C. Leuer  
Director, Preparedness Branch  
Minnesota Department of Public Safety  
Division of Homeland Security and  
Emergency Management  
444 Cedar Street, Suite 223  
St. Paul, MN 55101-6223  
(651) 201-7406  
(651) 296-0459 (fax)  
kevin.leuer@state.mn.us

Emergency response:

Sherrie Flaherty  
Environmental Health Supervisor  
Minnesota Department of Health  
625 Robert St. N.  
P.O. Box 64975  
St. Paul, MN 55164  
(651) 201-4522  
sherrie.flaherty@state.mn.us

Kevin C. Leuer  
Director, Preparedness Branch  
Minnesota Department of Public Safety  
Division of Homeland Security and  
Emergency Management  
444 Cedar Street, Suite 223  
St. Paul, MN 55101-6223  
(651) 201-7406  
(651) 296-0459 (fax)  
kevin.leuer@state.mn.us

FRA-certified rail inspectors:

Susan Aylesworth  
Manager, Railroad Administration Section  
Minnesota Department of  
Transportation  
395 John Ireland Boulevard, Mailstop 470  
St. Paul, MN 55155  
(651) 366-3644  
susan.aylesworth@dot.state.mn.us

Governor's designee for receiving  
advance notice of shipments (10 CFR  
Parts 71 and 73):

Kevin C. Leuer  
Director, Preparedness Branch  
Minnesota Department of Public Safety  
Division of Homeland Security and  
Emergency Management  
444 Cedar Street, Suite 223  
St. Paul, MN 55101-6223  
(651) 201-7406  
(651) 649-5451 (24 hours)  
(651) 296-0459 (fax)  
kevin.leuer@state.mn.us

Public information:

Doug Neville  
Director, Communications and Media  
Relations  
Minnesota Department of Public Safety  
445 Cedar Street, Suite 1000  
St. Paul, MN 55101-5000  
(651) 201-7171  
andy.skoogman@state.mn.us

Radiological emergency preparedness:

Patrick McLaughlin, REP Program  
Administrator  
Homeland Security and Emergency  
Management  
Minnesota Department of Public Safety  
Division of Homeland Security and  
Emergency Management  
444 Cedar Street, Suite 223  
St. Paul, MN 55101-6223  
(651) 201-7435  
(651) 296-0459 (fax)

Radiological health:

Sherrie Flaherty  
Environmental Health Supervisor  
Minnesota Department of Health  
625 Robert St. N.  
P.O. Box 64975  
St. Paul, MN 55164  
(651) 201-4522  
sherrie.flaherty@state.mn.us



Road and travel information:

(800) 542-0220

(651) 405-6030

Routing:

Michael Ritchie

Hazardous Materials Specialist

Minnesota Dept. of Transportation

Office of Freight and Commercial

Vehicle Operations

395 John Ireland Blvd.

St. Paul, MN 55155

(651) 366-3697

(651) 366-3719 (fax)

Michael.ritchie@state.mn.us

Security:

Major Michele Tuchner

Minnesota Department of Public Safety

State Patrol

444 Cedar Street, Suite 130

St. Paul, MN 55101

(651) 201-7108

michele.tuchner@state.mn.us

Captain Matthew Langer

Minnesota Department of Public Safety

State Patrol

444 Cedar Street, Suite 130

St. Paul, MN 55101

(651) 201-7114

matthew.langer@state.mn.us

TRANSCOM user(s):

None

**Designated alternative route(s):**

None

**Emergency Response Plan:**

Minnesota Emergency Operations Plan

**Escorts:**

Depending upon the nature of the shipment, the State may choose to provide an escort.

**Fees/Permits:**

*Spent fuel and HLW:*

\$1,000 per cask for each vehicle in each shipment.

[Minnesota Statutes Section 116C.731]

**Inspections:**

The state of Minnesota does not routinely inspect hazardous materials (including high-level radioactive waste) shipments. However, in the event of a major shipment campaign, the state may choose to inspect certain/all shipments.

**Key events and holidays:**

Minnesota State Fair (12 days before Labor Day)

**Safe parking considerations:**

Only those included in the Federal Motor Carrier Safety Regulations (49 CFR Part 397), which the State of Minnesota has adopted.

**Statutes pertaining to radioactive materials transportation:**

Motor Carrier Law (Minnesota Statutes, Sections 221.033-221.035)

Radioactive Waste Management Law (Minnesota Statutes, Section 116C.73)

State Board of Health Law (Minnesota Statutes, Section 144.12(15))

## MISSOURI

### Points of contact:

#### 24-hour emergency contact:

Missouri Emergency Management  
Agency (Duty Officer)  
(573) 751-2748

#### CSG Midwestern Radioactive Materials Transportation Committee appointees:

Alternate:

Jane Beetem  
Planner

Missouri Department of Natural  
Resources  
P.O. Box 176  
Jefferson City, MO 65102  
(573) 751-3195  
(573) 751-7627 (fax)  
jane.beetem@dnr.mo.gov

#### CVSA Level VI-certified motor carrier inspectors:

Capt. Londell Jamerson  
Director  
Missouri State Highway Patrol  
Commercial Vehicle Enforcement  
Division  
1510 E. Elm Street  
P.O. Box 568  
Jefferson City, MO. 65102  
(573) 526-6128  
(573) 526-4637 (fax)

Sgt. Kevin Kelley, Commercial Vehicle  
Enforcement Training Coordinator,  
General Headquarters  
CVO Chief Neal B. Mager, Hazardous  
Material Specialist, General  
Headquarters

#### Department of Health & Senior Services emergency response contact:

Keith Henke  
Bureau of Environmental Epidemiology  
Div. of Community and Public Health  
Missouri Department of Health and  
Senior Services  
930 Wildwood Drive  
P.O. Box 570  
Jefferson City, MO 65102-0570  
(573) 526-4911  
(573) 526-6946 (fax)  
(800) 392-0272 (24 hours)  
keith.henke@dhss.mo.gov

#### Emergency management:

Tom Mohr  
State Emergency Management Agency  
P.O. Box 116  
2302 Militia Drive  
Jefferson City, MO 65101  
(573) 526-9134  
(573) 634-7966 (fax)  
tom.mohr@sema.dps.mo.gov

#### FRA-certified rail inspectors:

Rodney Massman  
Administrator of Railroads  
Missouri Department of Transportation  
P.O. Box 270  
Jefferson City, MO 65102  
(573) 751-7476  
(573) 526-4709 (fax)  
rodney.massman@modot.mo.gov

#### Rail Projects Supervisor:

Mark Zacher  
(573) 526-3577  
mark.zacher@modot.mo.gov  
Grade Crossing, Signals: Christopher  
Noblett  
Track: Don Schwartz

#### Rail Operations Supervisor:

Lisa Lamons  
(573) 751-7121  
lisa.lamons@modot.mo.gov  
Track: Todd Hogg  
Operating Practices: Cory Reynolds

Governor's designee for receiving  
advance notice of shipments (10 CFR  
Parts 71 and 73):

Paul P. Parmenter  
Director  
State Emergency Management Agency  
2302 Militia Drive  
Jefferson City, MO 65102  
(573) 526-9101  
(573) 751-2748 (24 hours)  
(573) 634-7966 (fax)

Public information:

Judd Slivka  
Director of Communications  
Department of Natural Resources  
1101 Riverside Drive  
P.O. Box 176  
Jefferson City, MO 65102  
(573) 751-1010  
(573) 526-3444 (fax)

Mike O'Connell  
Communications Director  
Dept. of Public Safety  
Truman State Office Bldg. Room 870  
Jefferson City, MO 65102  
(573) 751-4905  
(573) 751-5399 (fax)  
mike.o'connell@dps.mo.gov

Capt. J.T. "Tim" Hull  
Director, Public Information Division  
Missouri State Highway Patrol  
(573) 526-6115  
(573) 526-6383 (fax)  
tim.hull@mshp.dps.mo.gov

Road and travel information:

Road: (800) 222-6400  
Weather: (314) 447-1876

Routing:

None designated

Security:

Capt. Gregory Smith  
Field Operations Bureau  
Missouri State Highway Patrol  
1510 East Elm Street  
P.O. Box 568  
Jefferson City, MO 65102-0568  
(573) 526-6145  
(573) 526-6223 (fax)  
(314) 790-3611 (pager)  
greg.smith@mshp.dps.mo.gov

TRANSCOM users:

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State Emergency Management Agency  
P.O. Box 116  
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(573) 526-9137  
(573) 634-7966 (fax)  
jim.bernskoetter@sema.dps.mo.gov  
General User

John C. Campbell  
Chief of Operations  
State Emergency Management Agency  
P.O. Box 116  
Jefferson City, MO 65102-0116  
(573) 526-9103  
(573) 634-7966 (fax)  
john.campbell@sema.dps.mo.gov  
Superuser

Thomas E. Mohr  
State Emergency Management Agency  
P.O. Box 116  
Jefferson City, MO 65102-0116  
(573) 526-9245  
(573) 634-7966 (fax)  
tom.mohr@sema.dps.mo.gov  
General User

**Designated alternative  
route(s):**

None

## **Emergency Response Plan: Statutes pertaining to radioactive materials transportation:**

Missouri Nuclear Emergency Accident Plan

### **Escorts:**

Required for all highway shipments of spent fuel, high-level radioactive waste, and transuranic waste.

Radiation Control Law (Missouri Revised Statutes sections 192.400 et seq.)

### **Fees/Permits:**

*Spent fuel, HLW, TRU waste, and HRCQ:*

Truck: \$1,800 per truck for each shipment, with a surcharge of \$25 per mile for every mile over 200 miles traveled for every single-cask truck shipment.

Rail: \$1,300 for the first cask and \$125 for each additional cask.

Fee does not apply to shipments conducted by state-funded institutions of higher education.

LLW: \$125 per truck or train.

[HB 683, Sections 260.392 to 260.399]

### **Inspections:**

Required for all shipments of spent fuel, high-level radioactive waste, and transuranic waste.

### **Key events and holidays:**

Route-specific issues are addressed on a case-by-case basis, during advance shipment planning.

### **Safe parking considerations:**

None

## NEBRASKA

### Points of contact:

#### 24-hour emergency contact:

Nebraska State Patrol HQ Troop Area  
Communications Center, Lincoln, NE  
(402) 479-4921  
(402) 471-4545 (alternate)

#### CSG Midwestern Radioactive Materials Transportation Committee appointees:

The Honorable LeRoy Louden  
Nebraska State Senator  
State Capitol  
P.O. Box 94604  
Lincoln, NE 68509  
(402) 471-2725  
llouden@leg.ne.us

Jonathan (Jon) Schwarz  
Emergency Preparedness Lead  
Nebraska Emergency Management  
Agency  
1300 Military Road  
Lincoln, NE 68508  
(402) 471-7420  
(402) 471-7433 (fax)  
jon.schwarz@nebraska.gov

#### CVSA Level VI-certified motor carrier inspectors:

Nebraska State Patrol HQ Troop Area  
Communications Center  
(402) 479-4921  
Sergeant Bradley Wagner – Lincoln  
Sergeant Justin Goforth – North Platte  
Sergeant Jason Halouska – Nebraska  
City  
Sergeant Lewis Copp – Scottsbluff  
Trooper Kevin Stary – Columbus  
Trooper Seth Wimer – Omaha  
Trooper Maychone Sayaloune –  
Scottsbluff  
Trooper Kurt vonRenzell – Lincoln  
Trooper Shannon Koubek – North  
Platte

#### Emergency management:

Jonathan (Jon) Schwarz  
Emergency Preparedness Lead  
Nebraska Emergency Management  
Agency  
1300 Military Road  
Lincoln, NE 68508  
(402) 471-7420  
(402) 471-7433 (fax)  
jon.schwarz@nebraska.gov

#### Emergency response:

Julia Schmitt  
Radiation Control Program Manager  
Nebraska Department of Health &  
Human Services  
Division of Public Health  
301 Centennial Mall South  
P.O. Box 95026  
Lincoln, NE 68509  
(402) 471-0528  
(402) 471-0169 (fax)  
julia.schmitt@nebraska.gov

#### FRA-certified rail inspectors:

Tim Sandusky  
Program Manager  
Nebraska Public Service Commission  
300 The Atrium  
1200 N Street  
P.O. Box 94927  
Lincoln, Nebraska 68509-4927  
(402) 471-0231  
(402) 471-0254 (fax)  
tim.sandusky@fra.dot.gov

Track: Tim Sandusky  
Motive Power & Equipment: Scott Elston

Governor's designee for receiving advance notice of shipments (10 CFR Parts 71 and 73):

Lieutenant Carla Schreiber  
Nebraska State Patrol  
3800 NW 12th Street  
Lincoln, NE 68521  
(402) 479-4931  
(402) 471-4545 (24 hours)  
(402) 479-4950 (fax)  
carla.schreiber@nebraska.gov

Planning and training:

Jonathan (Jon) Schwarz  
Emergency Preparedness Lead  
Nebraska Emergency Management Agency  
1300 Military Road  
Lincoln, NE 68508  
(402) 471-7420  
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jon.schwarz@nebraska.gov

Public information:

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Deb Collins  
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Nebraska State Patrol  
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Jodie Fawl  
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Nebraska Emergency Management Agency  
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(402) 471-7428  
(402) 471-7433 (fax)  
(402) 730-3769 (cell)  
jodie.fawl@nebraska.gov

Radiological health:

Julia Schmitt  
Radiation Control Program Manager  
Nebraska Department of Health & Human Services  
Division of Public Health  
301 Centennial Mall South  
P.O. Box 95026  
Lincoln, NE 68509  
(402) 471-0528  
(402) 471-0169 (fax)  
julia.schmitt@nebraska.gov

Road and travel information:

Toll Free: 1-800-906-9069;  
or (402) 471-4533

Routing:

Lieutenant Carla Schreiber  
Nebraska State Patrol  
3800 NW 12th Street  
Lincoln, NE 68521  
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(402) 471-4545 (24 hours)  
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Security:

Lieutenant Carla Schreiber  
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Lincoln, NE 68521  
(402) 479-4931  
(402) 471-4545 (24 hours)  
(402) 479-4950 (fax)  
carla.schreiber@nebraska.gov

### TRANSCOM users:

Thomas Prevo  
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Nebraska State Patrol  
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*Superuser, State Agency Representative*

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*Superuser*

Robert Eastwood  
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Nebraska Emergency Management  
Agency  
1300 Military Road  
Lincoln, NE 68508-1090  
(402) 471-7417  
(402) 471-7433 (fax)  
bob.eastwood@nebraska.gov  
*General User*

## **Designated alternative route(s):**

Interstate 680 from Interstate 80 to Iowa (use in lieu of I-80 in the Omaha area)

Check with the Nebraska State Patrol Division of Carrier Enforcement to ensure I-680 and/or I-80 routes are open and safe for transportation of radioactive material.

## **Emergency Response Plan:**

Radiological Materials Transportation Accident Plan (RAMTAP)

Located in the Nebraska State Emergency Operations Plan, ESF #8, Appendix #3

## **Escorts:**

Escorts in general are not required, unless specific federal regulations require an escort by a qualified law enforcement authority.

## **Fees/Permits:**

*Spent fuel, HLW, and TRU waste:*  
\$3,100 per cask

[Neb. Rev. Stat. Sections 71-3523 to 71-3528]

The carrier must file a transportation plan if the shipment deviates from the preferred route for nuclear materials. There are fees for the carrier if the shipment exceeds size restrictions (height or width) and load limits (weight). These permits can be obtained through the Nebraska Department of Roads – Permit Section.

## **Inspections:**

Carriers may be subject to the CVSA Level VI inspection process applicable to shipments of nuclear material. These inspections will be completed by officers of the Nebraska State Patrol Carrier Enforcement Division.

## **Key events and holidays:**

As a general rule, shipments should not be scheduled on Saturdays when there is a home football game for the University of Nebraska – Lincoln or for Nebraskaland Days in North Platte, NE, during mid-June.

Major highway construction projects for the I-80 corridor between Lincoln and Omaha will occur during the April

to October timeframe for the next several years. Shipments must be scheduled so that they do not conflict with commuter traffic time periods or specific construction activity that would compromise security or traffic flow issues.

Major travel holiday periods such as Christmas, Thanksgiving, Labor Day, Memorial Day, and July 4th should be avoided if at all possible.

### **Safe parking considerations:**

Areas suitable for safe parking can be identified by consulting the Nebraska State Patrol.

### **Statutes pertaining to radioactive materials transportation:**

Motor Carrier Act (Nebraska Revised Statutes sections 75-363 et seq.)

Radiation Control Act (Nebraska Revised Statutes sections 71-3501 et seq.)



## NORTH DAKOTA

### Points of contact:

#### 24-hour emergency contact:

North Dakota Department of  
Emergency Services (NDDDES)  
Division of State Radio  
(800) 472-2121 (in-state)  
(701) 328-9921 (out-of-state)  
Ask State Radio to page the NDDDES  
Duty Officer

#### CSG Midwestern Radioactive Materials Transportation Committee appointee:

David Glatt  
Chief, Environmental Health Section  
North Dakota Department of Health  
918 East Divide Avenue, 4th Floor  
Bismarck, ND 58501-1947  
(701) 328-5150  
(701) 328-5200 (fax)  
dglatt@nd.gov

#### CVSA Level VI-certified motor carrier inspectors:

None

#### Emergency management:

Greg Wilz  
Director  
North Dakota Division of Homeland  
Security  
Fraire Barracks  
P.O. Box 5511  
Bismarck, ND 58506-5511  
(701) 328-8100  
(701) 328-8181 (fax)  
gwilz@nd.gov

#### FRA-certified rail inspectors:

None

#### Governor's designee for receiving advance notice of shipments (10 CFR Parts 71 and 73):

Terry O'Clair  
Director, Division of Air Quality  
North Dakota Department of Health  
918 East Divide Avenue, 2nd Floor  
Bismarck, ND 58501-1947  
(701) 328-5188  
(701) 328-9921 (24 hours)  
(701) 328-5185 (fax)  
toclair@nd.gov

#### Public information:

David Glatt  
Chief, Environmental Health Section  
North Dakota Department of Health  
918 East Divide Avenue, 4th Floor  
Bismarck, ND 58501-1947  
(701) 328-5150  
(701) 328-5200 (fax)  
dglatt@nd.gov

#### Road and travel information:

<http://www.dot.nd.gov/travel-info/>

#### Routing:

Brad Darr  
North Dakota Department of  
Transportation  
608 East Boulevard Avenue  
Bismarck, ND 58505-0700  
(701) 328-4443  
(701) 328-4623 (fax)  
bdarr@nd.gov

#### Security:

Col. James J. Prochniak, Superintendent  
North Dakota Highway Patrol  
600 East Boulevard Avenue, Dept. 504  
Bismarck, ND 58505-0240  
(701) 328-2455  
(701) 328-1717 (fax)  
jprochni@nd.gov

#### TRANSCOM user:

None

## Designated alternative route(s):

None

Transportation of Radioactive Materials Regulations (North Dakota Administrative Code article 33-10-13)

## Emergency Response Plan:

North Dakota State Emergency Operations Plan

State of North Dakota Procedures for Coordination of Emergency Response and Recovery in Hazardous Material Incidents

## Escorts:

Not required

## Fees/Permits:

None

## Inspections:

Not required

## Key events and holidays:

None

## Safe parking considerations:

None

## Statutes pertaining to radioactive materials transportation:

Disclosure of Information Concerning Toxic or Hazardous Substances (North Dakota Cent. Code 18-01-34)

Materials Licensing Law (North Dakota Cent. Code sections 23-20.1-01 et seq.)

Motor Vehicle Act (North Dakota Cent. Code Ann. section 39-21-44)

# OHIO

## Points of contact:

### 24-hour emergency contact:

Bureau of Radiation Protection  
Ohio Department of Health  
(614) 722-7221

### CSG Midwestern Radioactive Materials Transportation Committee appointees:

The Honorable Steve Buehrer  
Ohio State Senator  
Statehouse  
Columbus, OH 43215  
(614) 466-8150  
sd01@mailr.sen.state.oh.us

Robert Owen

Chief, Bureau of Radiation Protection  
Ohio Department of Health  
246 N. High Street  
Columbus, OH 43215  
(614) 644-2727  
(614) 466-0381 (fax)  
robert.owen@odh.ohio.gov

### CVSA Level VI-certified motor carrier inspectors:

Carlisle Smith  
Supervisor, Hazardous Materials Safety  
Enforcement Section  
Public Utilities Commission of Ohio  
180 E. Broad Street  
Columbus, OH 43215  
(614) 728-9126  
(614) 728-2133 (fax)  
carlisle.smith@puc.state.oh.us

### Emergency management:

Carol O'Claire  
Radiological Branch Chief  
Ohio Emergency Management Agency  
2855 W. Dublin Granville Road  
Columbus, OH 43235-2206  
(614) 799-3915  
(614) 799-5950 (fax)  
coclaire@dps.state.oh.us

### FRA-certified rail inspectors:

Robert E. Marvin  
Director of Transportation  
Ohio Public Utilities Commission  
180 E. Broad Street  
Columbus, OH 43266-0573  
(614) 466-0437  
(614) 752-8349 (fax)  
robert.marvin@puc.state.oh.us

### Grade Crossing: Robert Reustle, D.E.

Coates, Shawn Zerfley  
Hazardous Materials: Kelly L. Hedglin,  
Brent Kiser, Ron Swegheimer  
Motive Power and Equipment: Steven  
Horner, Rand Patterson  
Operating Practices: Joseph Dunn  
Track: Jerry Gibson

### Governor's designee for receiving advance notice of shipments (10 CFR Parts 71 and 73):

Carol O'Claire  
Radiological Branch Chief  
Ohio Emergency Management Agency  
2855 W. Dublin Granville Road  
Columbus, OH 43235-2206  
(614) 799-3915  
(614) 889-7150 (24 hours)  
(614) 799-5950 (fax)  
coclaire@dps.state.oh.us

### Public information:

Robert Owen  
Chief, Bureau of Radiation Protection  
Ohio Department of Health  
246 N. High Street  
Columbus, OH 43215  
(614) 644-2727  
(614) 466-0381 (fax)  
robert.owen@odh.ohio.gov

### Road and travel information:

(888) 264-7623

Routing:

Dan Fisher  
Motor Carrier Safety Assistance Plan  
Manager  
Public Utilities Commission of Ohio  
180 E. Broad Street  
Columbus, OH 43215  
(614) 752-7991  
(614) 752-8349 (fax)  
daniel.fisher@puc.state.oh.us

Security:

Major Dan Kolcum  
Ohio State Highway Patrol  
Department of Public Safety  
1970 W. Broad Street  
Columbus, OH 43223  
(614) 466-2300  
(614) 466-2660 (24 hours)  
dkolcum@dps.state.oh.us

TRANSCOM users:

Thomas Breckenridge  
Ohio Emergency Management Agency  
(614) 799-3651  
tbreckenridge@dps.state.oh  
*General User*

Timothy Clark  
Ohio Emergency Management Agency  
(614) 889-7162  
toclark@dps.state.oh.us  
*General User*

Jim Colleli  
Ohio Department of Health  
(614) 728-0882  
jcolleli@odh.ohio.gov  
*General User*

Shannon Dettmer  
Health Physicist  
Ohio Department of Public Health  
246 N. High Street  
Columbus, OH 43215  
(614) 644-2727  
(614) 466-0381 (fax)  
shannon.dettmer@odh.ohio.gov  
*General User*

Stephen Helmer  
Ohio Department of Health  
(614) 728-3611  
stephen.helmer@odh.ohio.gov  
*General User*

Robert Leidy  
Ohio Department of Health  
(330) 643-3290  
robert.leidy@odh.ohio.gov  
*General User*

Carol O'Claire  
Ohio Emergency Management Agency  
(614) 799-3915  
coclaire@dps.state.oh.us  
*General User, State Agency Representative*

Robert Owen  
Ohio Department of Health  
(614) 644-2727  
robert.owen@odh.ohio.gov  
*General User, State Agency Representative*

Mark Petrilla  
Ohio Emergency Management Agency  
(614) 799-3928  
mpetrilla@dps.state.oh.us  
*General User*

Jon Rhoades  
Hazardous Materials Specialist  
Public Utilities Commission of Ohio  
180 E. Broad Street  
Columbus, OH 43215  
*General User*

Rob Rohr  
Hazardous Materials Specialist  
Public Utilities Commission of Ohio  
180 E. Broad Street  
Columbus, OH 43215  
*General User*

Carlisle Smith  
Public Utilities Commission of Ohio  
(614) 728-9126  
carlisle.smith@puc.state.oh.us  
*General User, State Agency Representative*

Michael Snee  
Ohio Department of Health  
(614) 644-2732  
michael.snee@odh.ohio.gov  
General User

## Designated alternative route(s):

None

## Emergency Response Plan:

State of Ohio's Memorandum of Understanding for Response to Hazardous Materials Incidents

State of Ohio Emergency Operation Plan

## Escorts:

Not required.  
Ohio State Highway Patrol  
(614) 466-4056

## Fees/Permits:

*Spent fuel, HLW, TRU waste, and HRCQ:*

Truck: \$2,500 per truck cask for each shipment

Rail: \$4,500 for the first cask,  
\$3,000 for each additional cask

Uniform State: \$50 processing fee plus an apportioned fee based on hazardous materials activities. Registration required.

## Inspections:

PUCO maintains a policy to inspect all HRCQ, spent fuel, HLW, and transuranic waste shipments. Package and vehicle/equipment inspection performed by PUCO.

Carlisle Smith, Supervisor  
Hazardous Materials Safety Enforcement Section  
Public Utilities Commission of Ohio  
180 E. Broad Street  
Columbus, OH 43215  
(614) 728-9126  
(614) 728-2133 (fax)  
carlisle.smith@puc.state.oh.us

## Key events and holidays:

None

## Safe parking considerations:

Carrier should select safe parking areas based upon criteria to avoid heavy population areas and on security.

Public rest areas are not appropriate parking areas.

## Statutes pertaining to radioactive materials transportation:

Hazardous Materials Transportation Act (Ohio Revised Code Ann. sections 4905 et seq.)

Radiation Control Act (Ohio Revised Code Ann. sec. 3748)

Radiation Protection Regulations (Ohio Administrative Code sections 3701:1-38, 40, 44, 46, 48, 49, 50, 52, 54, 56, 58)

## SOUTH DAKOTA

### Points of contact:

#### 24-hour emergency contact:

Division of Emergency Management  
(605) 773-3231 (Duty Officer)

#### CSG Midwestern Radioactive Materials

##### Transportation Committee appointee:

Joe Nadenicek  
Staff Attorney  
Department of Environment and  
Natural Resources  
523 E. Capitol Avenue  
Pierre, SD 57501  
(605) 773-3836  
(605) 773-6035 (fax)  
joe.nadenicek@state.sd.us

#### CVSA Level VI-certified motor carrier inspectors:

None

#### Emergency management:

Kristi Turman  
Director of Operations,  
Emergency Management Agency  
118 W. Capitol Avenue  
Pierre, SD 57501-5070  
(605) 773-3231 (24 hours)  
(605) 773-3580 (fax)

#### FRA-certified rail inspectors:

None

#### Governor's designee for receiving advance notice of shipments (10 CFR Parts 71 and 73):

Kristi Turman  
Director of Operations,  
Emergency Management Agency  
118 W. Capitol Avenue  
Pierre, SD 57501-5070  
(605) 773-3231 (24 hours)  
(605) 773-3580 (fax)  
kristi.turman@state.sd.us

#### Road and travel information:

(605) 773-7515

#### Routing:

South Dakota Highway Patrol  
500 E. Capitol  
Pierre, SD 57501  
(605) 773-4578  
(605) 773-7144 (fax)

#### TRANSCOM user:

None

### Designated alternative route(s):

None

### Emergency Response Plan:

State of South Dakota Emergency  
Operations Plan

### Escorts:

Not required

### Fees/Permits:

None

### Inspections:

Not required

### Key events and holidays:

None

### Safe parking considerations:

None

## **Statutes pertaining to radioactive materials transportation:**

Hazardous Materials Transportation  
Safety Act (South Dakota Codif. Laws  
Ann. sections 49-28A-1 et seq.)

Radiation Resources and Uranium  
Resources Exposure Control Act (South  
Dakota Codif. Laws Ann. sections  
34-21-1 et seq.)

## Points of contact:

24-hour emergency contact:  
(800) 943-0003

CSG Midwestern Radioactive Materials  
Transportation Committee appointees:

Alternate:  
Paul Schmidt  
Chief, Radiation Protection Section  
Dept. of Health Services  
P.O. Box 2659  
1 W. Wilson Street, Room B157  
Madison, WI 53701-2659  
(608) 267-4792  
(608) 267-3695 (fax)  
paul.schmidt@wisconsin.gov

The Honorable James Soletski  
Wisconsin State Representatives  
P.O. Box 8953  
Madison, WI 53708  
(608) 266-0485  
rep.soletski@legis.wi.gov

CVSA Level VI-certified motor carrier  
inspectors:

Wisconsin State Patrol:  
Mark E. Barlar, District 2  
Cynthia K. Bessler, District 7  
Mary K. Ebben, District 3  
Donald J. Gjestson, District 6  
Tye M. Howver, District 4  
Richard T. Krisher, District 1  
David S. Pabst, Headquarters  
John M. Sorenson, District 3  
Daniel P. Steele, District 5  
Timothy L. White, District 5

Emergency management:

Wisconsin Emergency Management  
P.O. Box 7865  
2400 Wright Street  
Madison, WI 53707-7865  
(608) 242-3232  
(800) 943-0003 (24-hour emergency)

FRA-certified rail inspectors:  
None

Governor's designee for receiving  
advance notice of shipments (10 CFR  
Parts 71 and 73):

Michael Hinman  
Administrator  
Wisconsin Emergency Management  
P.O. Box 7865  
2400 Wright Street  
Madison, WI 53707-7865  
(608) 242-3210  
(608) 242-3247 (fax)  
(800) 943-0003 (24-hour emergency)  
michael.hinman@wisconsin.gov

Additional required notification for  
shipments/incidents (per HFS 157):  
Paul Schmidt

Chief, Radiation Protection Section  
Dept. of Health Services  
P.O. Box 2659  
1 W. Wilson Street, Room B157  
Madison, WI 53701-2659  
(608) 267-4792  
(608) 267-3695 (fax)  
(800) 943-0003 (24-hour emergency)  
paul.schmidt@wisconsin.gov

Public information:

Lori Getter  
Public Information Officer  
Wisconsin Emergency Management  
P.O. Box 7865  
2400 Wright Street  
Madison, WI 53707-7865  
(608) 242-3239

Road and travel information:  
(800) ROADWIS (762-3947)



**Routing:**

Frank J. Busalacchi  
Wisconsin Dept. Transportation  
Office of the Secretary  
P.O. Box 7910  
Madison, WI 53707-7910  
(608) 266-1114  
(608) 266-9912 (fax)

**Security:**

Lieut. Charles R. Teasdale  
MCSAP Program Manager  
Wisconsin State Patrol Headquarters  
4802 Sheboygan Ave. Room 551  
P.O. Box 7912  
Madison, WI 53707-7912  
(608) 266-0305  
(608) 267-4495 (fax)

**TRANSCOM user:**

None

**Designated alternative route(s):**

None

**Emergency Response Plan:**

Wisconsin Emergency Operations Plan

**Escorts:**

Not required

**Fees/Permits:**

None

**Inspections:**

Not required

**Key events and holidays:**

None

**Safe parking considerations:**

None

**Statutes pertaining to radioactive materials transportation:**

Emergency Planning Law (Wisconsin Statutes Ann. Sections 166.01 et seq.)

Motor Vehicle Code (Wisconsin Statutes Ann. section 346.45)

Radiation Protection Act (Wisconsin Statutes Ann. sections 254.31-.45)

WI Administrative Code DHS 157.92-.94 regarding transportation of radioactive material

# APPENDIX C

## Midwestern State Fees

State	Spent Fuel	High-Level Waste	Transuranic Waste	HRCQ	
Illinois 420 ILCS 5/4 subpar 10 & 11	Truck: \$2,500 Rail: \$4,500 1st cask; \$3,000 each additional	Truck: \$2,500 Rail: \$4,500 1st cask; \$3,000 each additional	Truck: \$2,500 Rail: \$4,500 1st cask; \$3,000 each additional	Truck: \$2,500 Rail: \$4,500 1st cask; \$3,000 each additional	
Indiana IC 10-14-8-3	Truck: \$2,500 Rail: \$4,500 1st cask; \$3,000 each additional	Truck: \$2,500 Rail: \$4,500 1st cask; \$3,000 each additional			
Iowa IA Admin Code 641- 38.8(11)	Truck: \$1,800 per cask Rail: \$1,300 1st cask; \$125 each additional	Truck: \$1,800 per cask Rail: \$1,300 1st cask; \$125 each additional	Truck: \$1,800 per cask Rail: \$1,300 1st cask; \$125 each additional	Truck: \$1,800 per cask Rail: \$1,300 1st cask; \$125 each additional	
Minnesota MN Statutes Sec. 116C.731	\$1,000 per vehicle	\$1,000 per vehicle			

	Low-Level Waste	Surcharge	Prepay	Pay Online	Contact
		\$25 per mile for every mile over 250 miles traveled Applies to truck shipments (each truck)	no	no	Tim Runyon Illinois Emergency Management Agency (217) 782-1322
	\$100 per shipment		yes	yes	Laura Dresen Indiana Department of Homeland Security (317) 234-6510 web: <a href="https://oas.in.gov/dfbs/hazmat/hazmat/hazmat.do">https://oas.in.gov/dfbs/hazmat/hazmat/hazmat.do</a>
	\$175 per truck/train	\$20 per mile for every mile over 250 miles traveled Applies to all single-cask truck shipments, except LLW	yes	yes	Melanie Rasmusson Iowa Department of Public Health (515) 281-3478 For information: <a href="http://www.idph.state.ia.us/eh/radiological_health.asp">www.idph.state.ia.us/eh/radiological_health.asp</a> To obtain permit: <a href="http://www.iowadot.gov/mvd/omcs/forms.htm">www.iowadot.gov/mvd/omcs/forms.htm</a>
			optional	no	Kevin Leuer Minnesota Department of Homeland Security and Emergency Management (651) 201-7406

State	Spent Fuel	High-Level Waste	Transuranic Waste	HRCQ	
Missouri  2009: HB 683, Sections 260.392 to 260.399	Truck: \$1,800 per cask Rail: \$1,300 1st cask; \$125 each additional  Does not apply to Missouri- funded institutions of higher education	Truck: \$1,800 per cask Rail: \$1,300 1st cask; \$125 each additional  Does not apply to Missouri- funded institutions of higher education	Truck: \$1,800 per cask Rail: \$1,300 1st cask; \$125 each additional  Does not apply to Missouri- funded institutions of higher education	Truck: \$1,800 per cask Rail: \$1,300 1st cask; \$125 each additional  Does not apply to Missouri- funded institutions of higher education	
Nebraska  180 NAC 22- 004	\$3,100 per cask	\$3,100 per cask	\$3,100 per cask Does not apply to WIPP shipments		
Ohio  2009: HB 2, Sections 4905.801 to 4905.802	Truck: \$2,500 Rail: \$4,500 1st cask; \$3,000 each additional	Truck: \$2,500 Rail: \$4,500 1st cask; \$3,000 each additional	Truck: \$2,500 Rail: \$4,500 1st cask; \$3,000 each additional	Truck: \$2,500 Rail: \$4,500 1st cask; \$3,000 each additional	

	Low-Level Waste	Surcharge	Prepay	Pay Online	Contact
	\$125 per truck/train	\$25 per mile for every mile over 200 miles traveled Applies to all casks shipped by truck, except LLW	yes	no can accept credit card payments at 573-751-1151	Jane Beetem Missouri Department of Natural Resources (573) 522-2401
			yes	no	Julia Schmitt Nebraska Department of Health and Human Services (402) 471-0528
			yes	no	Carlisle Smith Public Utilities Commission of Ohio (614) 728-9126 Administrative rule pending

# APPENDIX D

## References

- Commercial Vehicle Safety Alliance. 2010. *North American Standard Out-of-Service Criteria and Level VI Inspection Procedures for Commercial Highway Vehicles Transporting Transuranics and Highway Route Controlled Quantities of Radioactive Materials as defined in 49 CFR Part 173.403*. Washington, DC: Commercial Vehicle Safety Alliance.
- Nuclear Waste Policy Act (Public Law 97-425, as amended by Public Law 100-203).
- Southern States Energy Board. 1999. *Transportation Planning Guide for the U.S. Department of Energy's Shipments of Transuranic Waste*. Norcross, GA: Southern States Energy Board.
- Transportation External Coordination Working Group (TEC/WG), Rail Topic Group. 2007. *Inspections Subgroup RAM Inspection Forms*.
- . 1998. *Comparison of Commercial Vehicle Safety Alliance Recommended National Procedures and Out-of-Service Criteria for the Enhanced Safety Inspection of Commercial Highway Vehicles Transporting Transuranics, Spent Nuclear Fuel, and High-Level Waste to Rail Inspection Standards*.
- . 1998. *Rail and Highway Regulations Relative to the Transportation of Radioactive Materials and their Applicability to State, Tribes, Shippers, and Carriers*.
- . 1998. *TEC/WG Transportation Safety WIPP-PIG Rail Comparison*.
- U.S. Department of Energy. 2008. Manual 460.2-1A. *Radioactive Material Transportation Practices Manual*.
- . 2008. *Office of Environmental Management Offsite Transportation Event Notification and Reporting*.
- . 2008. *U.S. Department of Energy Foreign Research Reactor Spent Nuclear Fuel Shipments: Transportation Plan for Motor Carrier Transport, Savannah River Site to Idaho National Laboratory*. Rev. 6. Idaho Falls, ID: DOE Idaho Operations Office.

- . 2004. Order 460.2A. *Departmental Materials and Transportation Packaging Management*.
- . 2003. Order 460.1B: *Packaging and Transportation Safety*.
- . 2002. *Waste Isolation Pilot Plant Transportation Plan*. DOE/CBFO 98-3103, Revision 1. Carlsbad, NM: DOE/Carlsbad Area Office.
- . 2001. *Transportation Plan for the Department of Energy Miamisburg Environmental Management Project Shipments of Transuranic Waste to Savannah River Site, Revision 1*. Miamisburg, OH: DOE/Miamisburg Environmental Management Project.
- . 1998. *Program Manager's Guide to Transportation Planning*. Albuquerque: DOE/National Transportation Program.
- . 1994. *Cesium Transportation Plan*. Richland, WA: DOE Richland Operations Office.
- U.S. Department of Transportation. 1998. *Safety Compliance Oversight Plan for Rail Transportation of High-Level Radioactive Waste and Spent Nuclear Fuel*. Washington, DC: Federal Railroad Administration.
- . Title 49, Code of Federal Regulations, Chapter I, Subchapter C, Hazardous Materials Regulations.
- . Title 49, Code of Federal Regulations, Chapter III, Subchapter B, Federal Motor Carrier Safety Regulations.
- U.S. Nuclear Regulatory Commission. Title 10, Code of Federal Regulations, Chapter I, Part 71, Packaging and Transportation of Radioactive Material.
- . Title 10, Code of Federal Regulations, Chapter I, Part 73, Physical Protection of Plants and Materials.
- Waste Isolation Pilot Plant Land Withdrawal Act (Public Law 102-579, as amended by Public Law 104-201).
- Western Governors' Association. 2005. *Waste Isolation Pilot Plant Transportation Safety Program Implementation Guide*. Denver: Western Governors' Association.

# APPENDIX E

## On-line Resources

The Council of State Governments' Midwestern Radioactive Materials Transportation Project

[www.csgmidwest.org/About/MRMTP.htm](http://www.csgmidwest.org/About/MRMTP.htm)

Emergency Management Assistance Compact

[www.emacweb.org](http://www.emacweb.org)

Nuclear Waste Policy Act

[www.energy.gov/media/nwpa\\_2004.pdf](http://www.energy.gov/media/nwpa_2004.pdf)

U.S. Department of Energy ([www.energy.gov](http://www.energy.gov))

DOE Orders ([www.directives.doe.gov](http://www.directives.doe.gov))

Order 460.1C, Packaging and Transportation Safety

[www.directives.doe.gov/directives/current-directives/460.1-BOrder-c/view](http://www.directives.doe.gov/directives/current-directives/460.1-BOrder-c/view)

Order 460.2A, Departmental Materials Transportation and Packaging Management

[www.directives.doe.gov/pdfs/doe/doetext/neword/460/o4602a.pdf](http://www.directives.doe.gov/pdfs/doe/doetext/neword/460/o4602a.pdf)

Manual 460.2-1A, Radioactive Material Transportation Practices Manual

[www.directives.doe.gov/pdfs/doe/doetext/neword/460/m4602-1a.pdf](http://www.directives.doe.gov/pdfs/doe/doetext/neword/460/m4602-1a.pdf)

Order 5400.5, Radiation Protection of the Public and the Environment

[www.directives.doe.gov/pdfs/doe/doetext/oldord/5400/o54005c2.pdf](http://www.directives.doe.gov/pdfs/doe/doetext/oldord/5400/o54005c2.pdf)

Order 153.1, Departmental Radiological Emergency Response Assets

[www.directives.doe.gov/directives/current-directives/153.1-BOrder/view](http://www.directives.doe.gov/directives/current-directives/153.1-BOrder/view)

National Spent Fuel Program

[nsnfp.inel.gov](http://nsnfp.inel.gov)

National Transportation Stakeholders Forum

[www.em.doe.gov/Pages/NationalTransportationForum.aspx](http://www.em.doe.gov/Pages/NationalTransportationForum.aspx)

National Transuranic Waste Program

[www.wipp.energy.gov](http://www.wipp.energy.gov)



Office of Packaging and Transportation  
[www.em.doe.gov/Pages/Transportation.aspx](http://www.em.doe.gov/Pages/Transportation.aspx)

Transportation Emergency Preparedness Program  
[www.em.doe.gov/TEPPPages/TEPPHome.aspx](http://www.em.doe.gov/TEPPPages/TEPPHome.aspx)

U.S. Department of Transportation ([www.dot.gov](http://www.dot.gov))

Federal Railroad Administration ([www.fra.dot.gov](http://www.fra.dot.gov))

Safety Compliance Oversight Plan  
[www.fra.dot.gov/downloads/safety/scopfnl.pdf](http://www.fra.dot.gov/downloads/safety/scopfnl.pdf)

Hazardous Materials Regulations  
[www.access.gpo.gov/nara/cfr/waisidx\\_08/49cfrv2\\_08.html](http://www.access.gpo.gov/nara/cfr/waisidx_08/49cfrv2_08.html)

Transportation of Hazardous Materials; Driving and Parking Rules  
[www.access.gpo.gov/nara/cfr/waisidx\\_01/49cfr397\\_01.html](http://www.access.gpo.gov/nara/cfr/waisidx_01/49cfr397_01.html)

U.S. Nuclear Regulatory Commission  
[www.nrc.gov](http://www.nrc.gov)

Waste Isolation Pilot Plant Land Withdrawal Act  
[www.emnrd.state.nm.us/WIPP/WIPPLandWithdrawalAct.htm](http://www.emnrd.state.nm.us/WIPP/WIPPLandWithdrawalAct.htm)

# APPENDIX F

## Acronyms

CFR	Code of Federal Regulations
CSG Midwest	The Council of State Governments, Midwestern Office
CVSA	Commercial Vehicle Safety Alliance
DOE	U.S. Department of Energy
DOT	U.S. Department of Transportation
FRA	Federal Railroad Administration (DOT)
HLW	High-level radioactive waste
HRCQ	Highway route-controlled quantity
LLW	Low-level radioactive waste
NRC	U.S. Nuclear Regulatory Commission
NWPA	Nuclear Waste Policy Act
RDD	Radiological dispersal device
TRANSCOM	Transportation Tracking and Communications System
TRU	Transuranic
WIPP	Waste Isolation Pilot Plant

# Planning Guide for Shipments of Radioactive Material through the Midwestern States

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## **On the cover:**

*Top: Illinois nuclear safety inspectors aboard a train, performing a radiological inspection of a shipment from Monticello Nuclear Generating Plant in Minnesota. Historic photo courtesy of the Illinois Emergency Management Agency, Division of Nuclear Safety (1983).*

*Middle left: A state inspector checks out a shipment preparing to depart Argonne National Laboratory near Chicago. Photo courtesy of the Illinois Emergency Management Agency, Division of Nuclear Safety (2009).*

*Bottom left: Two trucks carrying remote-handled transuranic waste head to DOE's Waste Isolation Pilot Plant in New Mexico. Photo courtesy of the Illinois Emergency Management Agency, Division of Nuclear Safety (2009).*

*Bottom right: A TRANSCOM operator monitors the progress of DOE shipments. Photo courtesy of the U.S. Department of Energy, Carlsbad Field Office (2010).*