



**Railroad
Safety**

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Hazmat

Hazardous Materials Transportation

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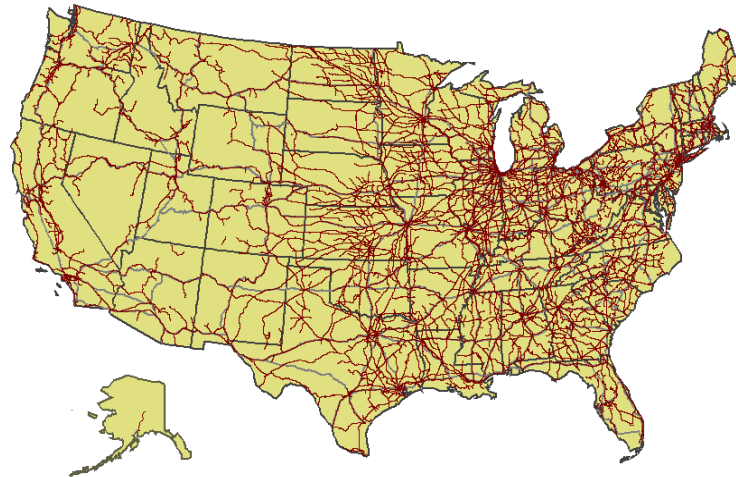


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The Impact of Rail HM Transport

- 18,800 of the 34,600 “places” in the continental US reside near rail lines
- All but 2 state capitals have rail lines operating in their boundaries
- 444 of the 448 continental US urbanized areas with populations greater than 50,000 intersect rail lines
- Railroads move almost 2 Million HM shipments annually



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Have We Made a Change?



Train Accident – Rockford, IL June 20, 2009

Year	2002	2003	2004	2005	2006	2007	2008	2009
Incidents	870	802	765	745	704	749	745	641
Derailments	41	42	46	51	44	52	26	37
Fatalities	1	0	3	10	0	0	0	1
Injuries	14	13	122	693	24	55	37	38

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Recent History

<i>Year</i>	<i>NAR</i>	<i>OTMA</i>
2004	765	333
2005	745	333
2006	704	354
2007	749	380
2008	745	444
2009	641	645



NAR and OTMA reports from 2004-2009

Non-Accident Release (NAR)
One Time Movement Approval (OTMA)

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Rule Requirements

- Collect data
- Analyze route safety and security
- Analyze alternate routes
- Consult with state, local, & tribal officials
- Choose safest/most secure route
- Restrict disclosure of information
- Reduce storage/delays in transit
- Perform security inspections
- Separate appeal process





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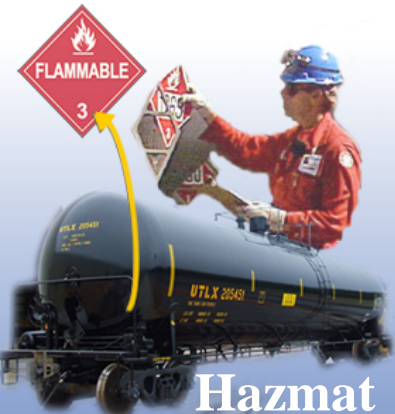


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Rail Routing

Select the best route considering both safety and security concerns

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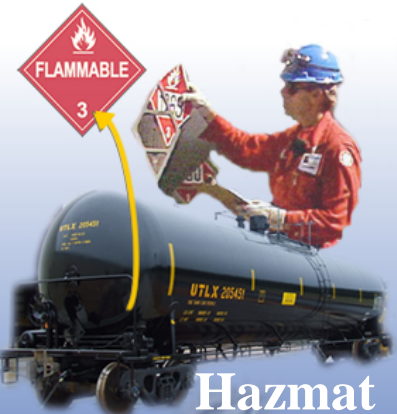
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Coupling Speed Program

- The project gathers data to gain a better understanding of forces induced into rail tank cars in yard operations (classification and handling).
- Over-speed impacts are addressed with car owner and railroad.



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Emergency Escape Breathing Requirements

- Proposed Rulemaking Issued October
- Crews on trains carrying toxic chemicals and asphyxiates
- Proposal:
 - Hooded design
 - Atmosphere-supplying
 - Escape device
 - 15 minutes
- Probably stored on-board locomotive



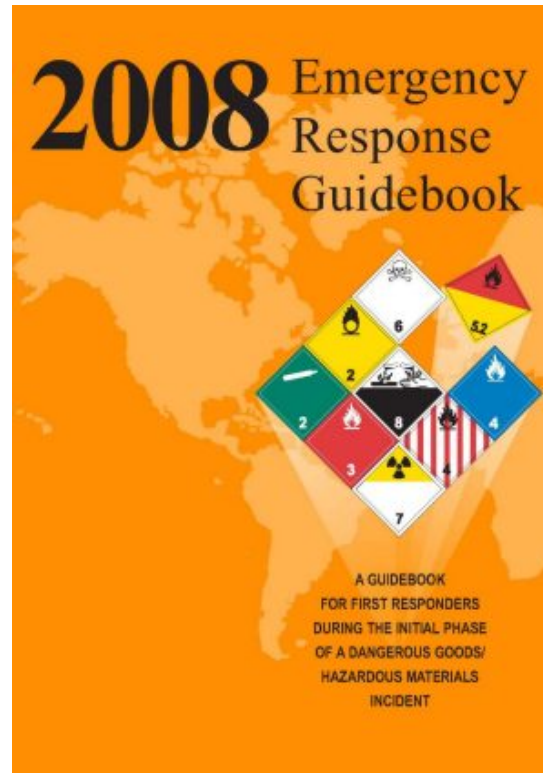


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Highway Transport



<http://wwwapps.tc.gc.ca/saf-sec-sur/3/erg-gmu/erg/ergmenu.aspx>



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Thank You



Still have Question?

- Contact me at 1+ 202.493.6247
- Visit FRA's web page at www.fra.dot.gov
- E-mail me at edward.pritchard@dot.gov
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