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RESOURCE GUIDE

Risk Assessment: Transportation

DESCRIPTION

The devastating attacks of September 11, 2001 graphically demonstrated the risks facing the United States' commercial transportation system from international terrorism. Recognizing the terrorist threat, homeland security officials and experts have designed risk assessment methodologies specific to this critical infrastructure sector.

RESOURCES

Methodologies and Assessment Tools

Federal Government

[Department of Energy \(DOE\):](#)

[Transportation Security Assessments](#): This is a comprehensive resource guide provided by DOE. The report contains a summary of the risks to the transportation infrastructure, as well as risk assessment guidance and requirements.
([LLIS.gov ID# 12751](#))

[Department of Homeland Security \(DHS\):](#)

[Transportation Security Administration \(TSA\):](#)

[Vulnerability Evaluation Tool](#): The Transportation Risk Assessment and Vulnerability Evaluation (TRAVEL) Tool is used in a comprehensive, facilitated, on-site assessment of a transportation asset. An assessment using the TRAVEL tool requires a systematic assessment of an asset's baseline security system and that system's effectiveness in detecting, deterring, and/or preventing the threat scenarios.

http://www.tsa.gov/approach/risk/editorial_0825.shtm

[National Laboratories:](#)

[Sandia National Laboratories:](#)

[Radiological Materials-Transportation Risk Assessment Tool](#)

[\(RADTRAN\)](#): Sandia has developed a risk assessment software tool to evaluate risks stemming from the transport of radiological materials. The program can be downloaded after following the instructions listed on the webpage.

<https://radtran.sandia.gov/>

Associations

[American Association of State Highway and Transportation Officials \(AASHTO\):](#)

[Guide to Highway Vulnerability Assessment for Critical Asset Identification and Protection](#): This is AASHTO's risk assessment methodology for highway systems. It includes specific hardening measures that can be taken after the assessment and cost-benefit analysis have been performed.

[\(LLIS.gov ID# 12752\)](#)

[National Needs Assessment for Ensuring Transportation Infrastructure Security](#): This guide provides an overview of the different measures that state officials can take to improve transportation security, while recognizing the limits on available resources and the need for thorough cost-benefit analysis before implementing these security enhancements.

[\(LLIS.gov ID# 12753\)](#)

Reports

Associations

[American Association of State Highway and Transportation Officials \(AASHTO\):](#)

[A Guide to Updating Highway Emergency Response Plans for Terrorist Incidents](#): This report provides preliminary guidelines for planning for enhanced emergency response to terrorist incidents, especially those involving weapons of mass destruction (WMD).

[\(LLIS.gov ID# 7757\)](#)

Articles

Federal Government

[Department of Transportation:](#)

[Volpe Center:](#)

["Risk Assessment and Prioritization \(Transportation and Port Security\)"](#), [Volpe Journal](#), 2003.

The Volpe Center, the Department of Transportation's research and analysis agency, presents this discussion of risk assessment and the challenges facing the transportation sector in the effort to combat terrorism. The article also specifically addresses the threats to cargo and commercial transportation and the need to assess those threats and risks.

[\(LLIS.gov ID# 12755\)](#)

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