

Findings

- LNG transportation has a good safety record, with minimal maritime, facility, and motor carrier incidents relative to other flammable liquids
- Developing a QRA with risk factors and parameters will help to evaluate the derailment and release probability of LNG rail cars
- When the probability of LNG tank car derailment is understood, better decisions can be made regarding the crashworthiness, placement, and operation of rail cars
- Further study for modeling the probability and consequences of transporting LNG by rail and truck will be beneficial to understanding risks to the public