



## Comprehensive Hazardous Material Community Protection through Advanced Risk Analysis and Mitigation

Recent train derailments and material storage incidents involving hazardous chemicals have highlighted the significant dangers these materials pose to public safety and the environment. These events underscore the importance of comprehensive and proactive planning to minimize risk and safeguard our communities.

IEM offers a suite of services to support state and local government in their efforts to prepare for these inevitable events. Our services include:

- commodity flow studies;
- risk assessments;
- incident planning; and
- community risk mitigation recommendations.

With our extensive experience and expertise, we are uniquely positioned to help communities reduce the likelihood or consequence of hazardous material incidents and ensure rapid and effective response to these emergencies.

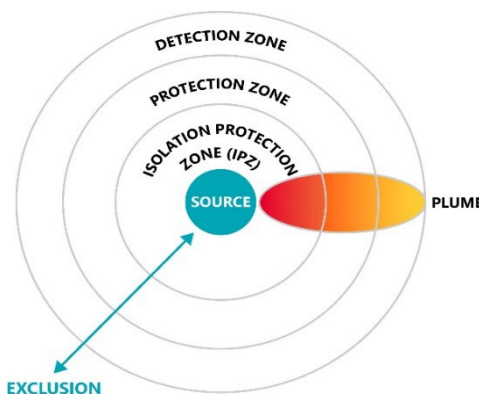
### Commodity Flow Studies

IEM's commodity flow studies go beyond simple clicker count studies by analyzing transportation corridors, packaging, trends and identifying potential community-scale hazards that require further planning. Critical information on the presence of these chemicals must be drawn from the Tier II data required by the Emergency Planning and Community Right-to-Know Act (EPCRA). By mapping these risks, we enable decision-makers to develop effective strategies for addressing potential incidents.

Our analyses consider factors such as:

- the volume and types of hazardous materials transported;
- mode of transportation;
- transportation routes; and
- population density along transportation corridors.

More importantly, we help identify sensitive community receptors such as schools, health care facilities, and critical infrastructure that may be impacted. **To date, IEM has completed Commodity Flow Studies for all 100 counties in North Carolina, all counties in Maine and Connecticut, as well as counties in Pennsylvania, Delaware, Ohio, and Ascension Parish in Louisiana.**



### QUICK FACTS

#### Founded

1985

Woman-Owned and Minority-Founded

#### Headquarters

Research Triangle Park, NC

#### Who we are

For almost four decades, IEM remains at the forefront of supporting the nation's most significant public health, emergency management, and homeland security threats.

#### Our experience

IEM's five-phase hazmat study for North Carolina, between 2009 and 2013, was highlighted as a "best practice" on the U.S. DOT's Pipeline and Hazardous Materials Safety Administration website.

#### Our Expert



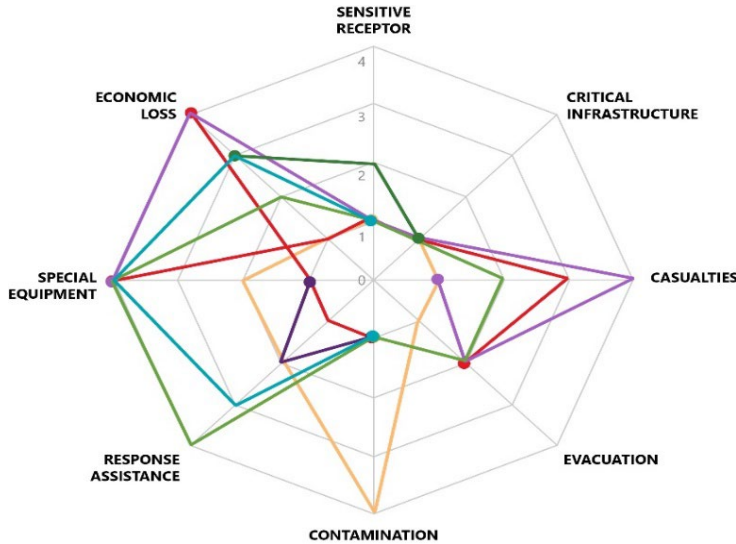
**Sid Baccam, PhD**  
Manager, Emerging Technologies

Sid.Baccam@iem.com

## Risk Assessment

IEM's risk assessments provide a detailed evaluation of the potential consequences of hazardous material incidents, factoring variables such as:

- the type and quantity of materials;
- potential release scenarios and
- vulnerability of nearby populations and ecosystems.



Our assessments incorporate the latest scientific data and modeling techniques to ensure accurate and up-to-date information to provide a more in-depth analysis of how different sectors may be impacted by a hazmat incident. By identifying the most significant risks, our clients can prioritize their efforts and investments in risk reduction and response planning.

### Community Risk Mitigation Recommendations:

Based on the findings of our commodity flow studies and risk assessments, IEM provides tailored community risk mitigation recommendations to address the unique challenges faced by each region. These recommendations may include:

- Infrastructure Improvements;
- Emergency Response Planning;
- Training and Education;
- Land Use and Development Policies; and
- Public Outreach and Communication.

### Why IEM

IEM's experience, our recognized best practice approach, and our expertise in analyzing and mitigating the risks associated with hazardous materials make us the ideal partner for states, regions, and local governments seeking to protect themselves from the dangers posed by these substances. By providing in-depth commodity flow studies, risk assessments, and community risk mitigation recommendations, IEM **empowers decision-makers** to take **informed, proactive steps** to safeguard public safety and the environment. As incidents involving hazardous materials continue to pose significant challenges, our services remain vital in ensuring that communities effectively prevent and respond to these threats.

## CONTRACT VEHICLES

IEM manages a broad portfolio of government contract vehicles to provide our clients with fast, flexible channels to access the full range of IEM services.

### California Multiple Award Schedules

Contract Number: 4-22-07-1003  
Contract Period: July 6, 2022-Sept. 13, 2027

Contract Number: 3-20-70-2296C  
Contract Period: Aug. 11, 2020-Sept. 13, 2027

### HGACBuy

Contract Number: HP08-21  
Contract Period: Aug. 1, 2021-July 31, 2025

### Florida Department of Management Services

Contract Number: 80101500-20-1  
Contract Period: March 1, 2021-Aug. 31, 2024

### GSA Multiple Award Schedule:

Contract number: GS-35F-679GA

### MAS – General Purpose Commercial Information Technology Equipment, Software, and Services Rescue

Contract Number: GS-35F-679GA  
Contract Period: Sept. 14, 2017 – Sept. 13, 2027

### TXShare

Contract Number: 2023-028  
Contract Period: Oct. 1, 2023-Sept. 30, 2024

### Pennsylvania Statewide Training and Consulting Services

Contract Number: 4400045804  
Contract Period: Indefinite

Contract Number: 4400022828  
Contract Period: Indefinite

### Massachusetts Statewide Contract

Contract number: PRF76  
Contract Period: Oct. 27, 2022-Sept. 30, 2027