AASHTO Special Committee on Transportation Security
National Cooperative Highway Research Program Project Panel 20-59

Establishing the Next Generation of Surface Transportation Security

FHWA Emergency Transportation Operations
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Guide for Emergency Transportation Operations

Figure 1. The Complexity of ETO

- Level of Communication and Coordination
- Frequency of Incident
- Severity of Incident
- Number of Agencies Involved
- Planned Activities
- Minor Incident
- Major Incident
- HAZMAT Incident
- Natural Disaster
- Terrorist Incident
- Public Safety Agencies
- DOTs, State and Local Agencies
- State Emergency Management Agencies
- Other Local Agencies (Emergency Management, Roads, Public Works)
- Federal
Evacuation Triggers

Figure 4-2. Principal Causes of Large-Scale Evacuations in the United States 1/1/1990 - 6/30/2003
57% Evacuations involve more than 2,000 people

Figure 4-1. Size Distribution of Large-Scale Evacuations in the United States, 1/1/1990 - 6/30/2003

(“Identification & Analysis of Factors Affecting Emergency Evacuations” 2004 Study by Sandia National Laboratories for the NRC)
Current ETO Activities

- **Routes to Effective Evacuation** Primer Series:
  - Using Highway during Evacuations Operations for Events with Advance Notice
  - Using Highway during Evacuations Operations for Events with Little to No Advance Notice
  - Evacuating Populations with Special Transportation Needs
Current ETO Activities – Evacuation Training

- Workshop focus - transportation elements of an effective evacuation plan.
- Attendees collaborate to role play a response to a realistic hurricane scenario in a 2-day tabletop exercise, designed to meet the particular needs of the region.
- These workshops are based in large part on the FHWA Office of Operations’ recently published primer “Using Highways during Evacuation Operations for Events with Advance Notice.”
Evacuation Workshops - Sites

- May-30-31 Workshop, Tallahassee, FL
- Future Sites and Focus
  - Northeast  - Hurricane and Flood triggers
  - Mid-Atlantic - Hurricane and Flood triggers
  - West Coast - Earthquake and Wildfire/Urban Interface
  - National Capital Region and other At-Risk metro areas - WMD/NBC evacuation triggers
Current ETO Activities

- Assessment of Modeling Capabilities and Applications for Evacuation Operations
  - Product will identify strengths and weaknesses of various modeling software.

- Simulation Modeling and Analysis for Traffic Evacuation – Sunday Workshop
Information Exchange

- FHWA ETO’s Website
  - Currently under redesign.
  - One organizing approach we are considering is by the functional categories such as:
    - Plans
    - Prevention and Preparedness
    - Operations
    - Response and Recovery
FHWA has an agreement with the Department of Homeland Security (DHS) to establish an Emergency Transportation Operations (ETO) channel—or special interest page—on its Lessons Learned Information Sharing (LLIS) system.
NHI Training

- ICS Training
  - Currently in the pilot phase.
- TIM Training
- PSE Training
- TIM/PSE/ICS Certificate
ICS and NIMS

- Introduced ICS to transportation
- ICS and NIMS language to be incorporated in all future ETO publications and training.
Upcoming Publications

- Managing Travel for Planned Special Events: Executive Summary
- Tim Case Studies: A Review of Regional and State Best Practices and Lessons Learned from FL, MD, NY, TX, UT and WA
- Traffic Incident Management Handbook
- Traffic Incident Management: Full Function Service Patrol Handbook
- Safe Quick Clearance of Traffic Incidents Primer Series
- Traffic Incident Performance Metrics
- CAD-TMC Field Operations Test Report
Proposed Activities

- International Scan - “Emergency Transportation: Best Practices, New Technology Applications and Lessons Learned”
  - Purpose: Study plans, processes, tools, technologies, and coordination mechanisms for complex incidents.
  - Scope: Emergency highway transportation planning and operations for all-hazard responses, with the exception of TIM-type, limited local incidents.

- Proposed Topics for NCHRP
  - Debris Clearance
  - Use of TMCs as Call Dispatch Centers during Disasters
Contact Information

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- Thank you
ETO – in Context