Trespass Prevention: A Hazard Management Approach

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Outline

• Trespassing Awareness
• Addressing Trespassers
  – Engineering
  – Education
  – Enforcement
• Part 659 Hazard Management Approach
• Doing our Part
Trespassing Awareness

CY2011 Trespassing incidents by Top-15 States

- California: 20%
- Texas: 11%
- Illinois: 8%
- Florida: 8%
- Pennsylvania: 6%
- New York: 5%
- Washington: 5%
- New Jersey: 5%
- Kentucky: 4%
- Tennessee: 4%
- Ohio: 4%
- North Carolina: 4%
- Georgia: 4%
- Indiana: 3%
- Maryland: 3%

427 Rail Transit & Freight Trespassing Fatalities in 2011
Trespassing Awareness

- Trespassing incidents #1 cause of rail transit fatalities (excluding suicides)

![Cause of Rail Transit Fatalities Pie Chart]

- Trespasser: 42%
- Pedestrian Actions: 6%
- Imprudent Customer Actions: 6%
- Slips and Falls: 13%
- Action of Motorist: 13%
- Medically Related: 10%
- Operating Rule Violation/Human Factors: 6%
- Equipment Failure: 4%
Trespassing Awareness

Rail Transit Trespassing Incidents

66% Increase in Rail Transit Trespassing Fatalities in 2010

Trespassing Incidents & Fatalities are Increasing!
Addressing Trespassers

Engineering

• Hazard Management
  – Preliminary Hazard Analysis (PHA) for new projects
  – PHA for new developments near existing alignments
Addressing Trespassers

Engineering

• Design Criteria
  – Hazard analysis needs to be ongoing process
  – Mitigations from (ongoing) analysis needs to be included in design criteria and/or procedures
  – Consider operations and industry best practices to support analysis
Addressing Trespassers

Education

• Internal (within Agency)
  – Learn & understand your trespassing environment (trend incidents and near misses)

• External (Public)
  – Prioritize and CONDUCT public outreach
  – Consider partnering with experts (OLI)
Addressing Trespassers
Addressing Trespassers

Enforcement

• Report Concerns
  – Work with frontline employees (“eyes and ears”) to report common trespassing locations

• Target Enforcement
  – Work with security to best address problem

• Follow-up on Concerns
  – Verify the problem is resolved and document effective practices
Part 659 – Hazard Management Approach

Part 659 requirements

• “ongoing communication and coordination relating to the identification, categorization, resolution, and reporting of hazards to the oversight agency”

In Other Words

• State (Oversight Role) and Agency work together to develop a hazard management program responsible for:
  – Identifying trespassing concerns
  – Reporting and logging trespassers concerns
  – Prioritizing the trespassing concerns
  – MITIGATE trespassing concerns
Doing Our Part

Understand your Environment

• Study trespass concerns for root-cause, and mitigate that root-cause
  – Example: Trespassers short-cut across tracks for school access, work with school for discipline support.
  – Guidance: FRA Rail Trespasser Fatalities – Developing Demographic Profiles

Safety Culture

• Get buy in on trespassing measures from entire agency (Top-Bottom & Bottom-Top)