Safety Rules Revisions Impact on Safety Culture, Incident Rates, and Liability Claims in the U.S. Railroad Industry: A Summary of Lessons-Learned

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#### Outline

Safety rules revision in railroad industry
Safety rules revision description
Description of FRA sponsored study
Lessons-learned
Future directions

# Need for Safety Rules Revision in Railroads

- Many railroads have over 500 safety rules
- Safety rules redundant, conflicting
- Several causes
  - Mergers
  - Concerned management
  - Federal Employer's Liability Act (FELA)
  - Historical safety focus

FRA interested in methods to improve safety culture, reduce injuries and related liability costs.

**British Railway Workers Perception** of Safety Rules (Elling, 1991) 80% - Concerned with pinning blame 79% - Too many rules, 12% - too few; only 9% - no complaints 77% - Rules conflict 95% - Work could not be finished on time if followed 85% - Hard to find what they wanted 70% - Too complex and hard to read when found 71% - Little motivation to follow them 0% - Referred to the rules in a practical work situation in the preceding six months

### **Description of Safety Rules Revision**

(Hile Group, Inc. 2002)

- Shift responsibility for safety rules
- Involve management and labor
- Structure project for craft involvement
- Use new definition of a safety rule
- Involve rules revision consultant
- Communicate new rules

#### FRA Sponsored Study

Volpe Center conduct lessons-learned study

Four transportation carriers

Interviews with labor and management

Incident data examined

#### Lessons-learned

Successful Implementation Strategies
Impacts

Safety culture
Number of rules
Incident rates
Liability and Injury costs

Challenges

# Successful Implementation Strategies

Senior management preparation
Participation
External help
Involvement of unions

### Impacts: Safety Culture

Values, patterns of behavior
 Labor – management relations

# **Impacts: Safety Rules Reduction**

Company	Before Revision	After Revision
American Commercial Barge Lines (ACBL)	<b>400</b> safety rules, policy, job aids, training information (some craft specific and some for general use)	<b>125</b> core and job specific safety rules and recommended safe work practices
CSXT Transportation (CSXT)	<b>900</b> safety rules, policy, job aids, training information (some craft specific and some for general use)	222 core and craft specific safety rules
Kansas City Southern (KCS)	742 safety rules, policy, job aids, training information (some craft specific and some for general use)	678 core and craft specific safety rules (includes 98 for Clerical - no previous book
Canadian National/ Illinois Central (CN-IC)	<b>1,360</b> safety rules, policy, job aids, training information (some craft specific and some for general use)	686 core and craft specific safety rules

### Impacts: Incident Rates Reduction Significant at One Railroad



Management Preparation Phase mentioned by all four carriers

### Challenges

Significant time required
 Resistance from subgroups
 Turnover on committees

#### **Future Directions**

#### Learn more about:

- Implementation differences by department
- Reduction in FELA claims
- Role of union officials
- Sustainability

Safety rules revision worthy of future study