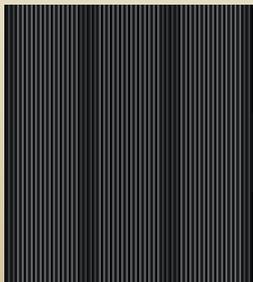


2014 State Rail Safety Managers Annual Meeting

Illinois Rail Safety Program

**Michael E. Stead
Rail Safety Program Administrator
Illinois Commerce Commission**



Illinois Commerce Commission

- Regulatory Authority over Freight Railroad Operations In Illinois
 - ✓ 625 ILCS 5/Ch 18C Sub 7 Art I -- *ARTICLE I. JURISDICTION OVER RAIL CARRIERS*
- 92 Illinois Administrative Code (IAC)
 - ✓ Part 1500 – Structural Clearances (Bridges)
 - ✓ Part 1515 – Report of RR Accidents/Incidents
 - ✓ Part 1535 – Grade Crossings; Weeds/Brush
 - ✓ Part 1536 – Grade Crossing Closure/Opening
 - ✓ Part 1545 – RR Employee Facilities
 - ✓ Part 1546 – RR Employee Walkways



Illinois Rail Facts

- Illinois has approximately 7,200 miles of railroad track (2nd largest rail system in the nation).
- Over 500 million tons (1 trillion pounds) of freight move on Illinois' rail systems each year (most of any state in the nation).
- Chicago is the largest rail hub in the U.S. and third largest intermodal container/trailer port in the world.
- Over 50 railroad companies operate trains in and through Illinois (3rd largest number of RRs in the nation).
- Approximately 30 million tons of chemicals, many of which are hazardous, are transported on Illinois' rail systems each year. (Exclusive of Crude Oil)



Illinois Crossing Statistics

- 10,756 public highway-rail crossings are located within Illinois
 - ✓ *7,981 Public Grade Crossings*
 - ✓ *2,775 Public Highway-Rail Bridges*

- 4,960 Private Highway-Rail Crossings
 - ✓ *4,707 Private Grade Crossings*
 - ✓ *163 Private Highway-Rail Bridges*

- 485 Pedestrian-Rail Crossings
 - ✓ *394 Pedestrian Grade Crossings*
 - ✓ *91 Pedestrian-Rail Bridges*



Illinois Commerce Commission

Rail Safety Section

- Railroad Safety
 - ✓ Hazardous Materials (2) **1**
 - ✓ Operating Practices (1)
 - ✓ Signals & Train Control (3)
 - ✓ Track (3) **1**
- Public Education – Operation Lifesaver
- Crossing Safety



Safety Is Our HIGHEST Priority

- The ICC's Rail Safety Program has become one of Illinois' most effective public safety programs.
- Since 2000, motor vehicle-train Crashes at grade crossings in Illinois have declined by 76%; Fatalities have dropped by 72%
- Since 2000, the ICC has participated in the performance of safety improvements at over 7,000 public highway-rail crossings statewide.



Crossing Safety

- Grade Crossing Protection Fund (GCPF)
- Engineering Oversight
- Collision Investigations
- Public Complaints
- Warning System Inspections
- Crossing Database and Collision Statistics
- Public Education



Grade Crossing Protection Fund

- Safety Improvements for Public Highway-Rail Crossings on Local Roads & Streets
- Created by the General Assembly in 1955
- Monthly transfers from Motor Fuel Tax Fund
- \$1.2M/year (1955) → \$42M/yr (2009-current)
- Provided over \$500 million to help pay for safety improvements at over 7,000 crossings since 1955



GCPF Projects

- Passive Warning Signs
- Active Warning Devices
- Structures
- Traffic Signal Interconnects
- Crossing Closures
- High Speed Rail
- New Technology/Demonstration Projects



GCPF Project Funding Division (Typical)

- Installation of Automatic Warning Devices: **85/10/5**
[85% - GCPF; 10% - Local Agency; 5% - Railroad, plus all future Operating & Maintenance Costs]
- Bridges: **60/40** (GCPF¹ / Local Agency²) –
[¹\$12M Maximum; ²less RR Contribution]
- Interconnects: **90/10** (GCPF / RR)
- Upgrade Existing Control Circuitry: **50/50**
(GCPF / Railroad)



Current Issues

- ✓ Crude Oil Shipments
- ✓ High Speed Rail
- ✓ Passenger Rail Expansion
- ✓ Pedestrian Crossings
- ✓ Quiet Zones
- ✓ New Technology Demonstrations



Crude Oil Shipments

- No In-State Destinations
- All Class I RRs
 - ✓ Chicago Area (2-20)
 - ✓ Metro E. St. Louis (2-20)
 - ✓ Downstate (1-45)



Crude Oil Shipments

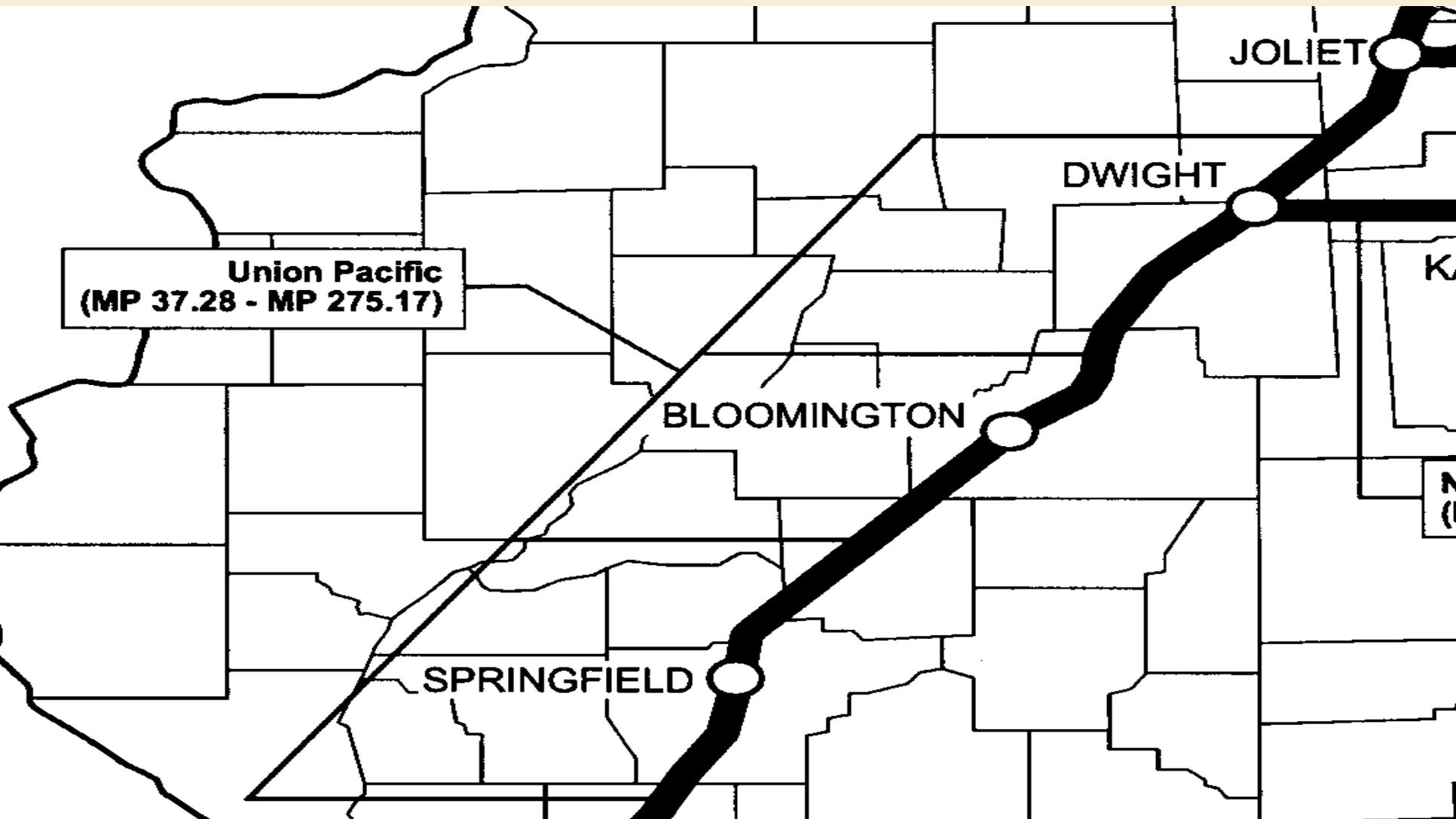


High Speed Rail

- Chicago-St. Louis
- 110 mph Operations by end of 2017
- 180 Highway-Rail Grade Crossings
 - ✓ 137 Highway
 - ✓ 12 Pedestrian
 - ✓ 36 Private Access (Private w/Public Attributes)
 - ✓ 6 Field Access
- Track Maintenance
 - Tie Condition
 - Drainage
- PTC (ITCS)
- Crude Shipments



High Speed Rail



HSR - Public Safety Issues

- ✓ Public Crossings
- ✓ Pedestrian Crossings
- ✓ Trespassers
- ✓ Private Crossings
- ✓ Farm Crossings



Public Grade Crossings

Four Quadrant Gates



Pedestrian Crossings



Trespassers

(Restrict Access to the RR R.O.W.)



Private Crossings (Safe Access)



Field Crossings (Safe Access)

Field Crossing w/o Active Warning



Field Crossing with User-Activated Devices



Passenger Rail Expansion

- Chicago-Iowa City (FRA)
 - ✓ Chicago – Quad Cities (IL)
 - ✓ BNSF and IAIS
 - ✓ 79 mph

- Chicago – East Dubuque (IL)
 - Chicago – Rockford (Phase 1)
 - 49 mph – end of 2015 (1 R.T.)
 - 79 mph – end of 2017 (2 R.T.s)

- Track
- Train Control
- Crossings



Pedestrian Crossings

- Increase in Pedestrian-Train & Trespassing
- Increase in Pedestrian Trails
- Pedestrian Traffic Generators
- Change in "Policy"
 - ✓ Ped Gates
 - ✓ Swing Gates
 - ✓ R.O.W. Fencing



Quiet Zones

- 637 in U.S.; 421 since Horn Rule
- 75 in IL; 45 since Horn Rule
 - ✓ 39 in CHI Area
 - ✓ 6 Downstate
- HSR Project → New QZs
- Passenger Rail Expansion
- Ped Crossings in QZs



Technology Demonstration Project – Four Quadrants Gates/Radar Detection

- Suburban Chicago
- Freight & Commuter
- 3 Tracks
- 150+ Trains/Day



New Technology Demonstration

Retractable Bollards



Questions??

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