



National Transportation Safety Board

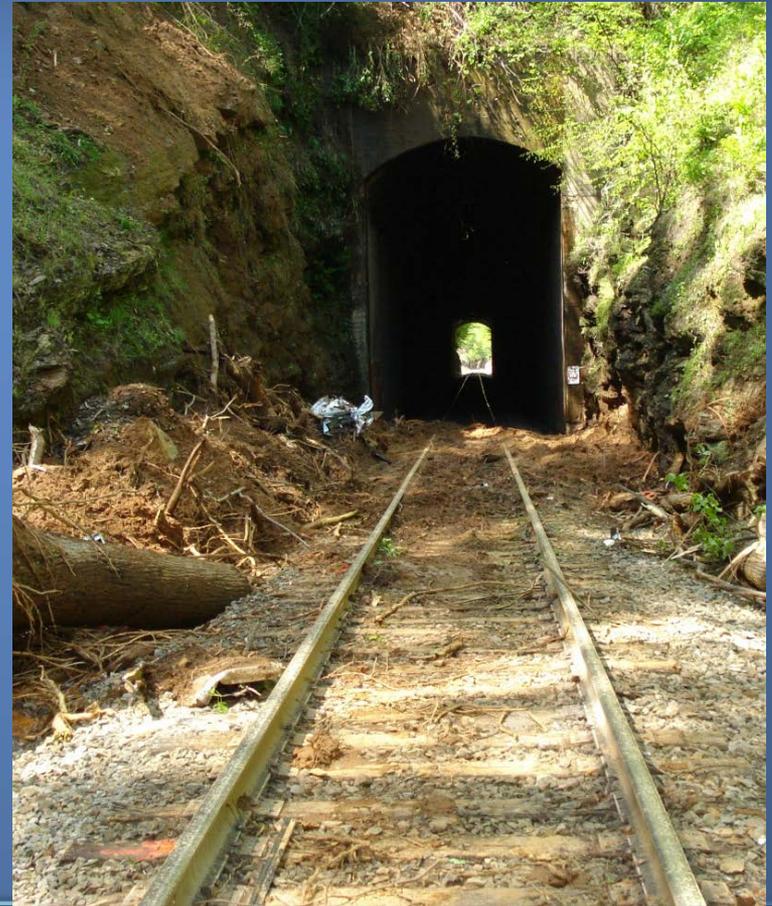
Special Investigation Report on Railroad and Rail Transit Roadway Worker Protection

Tim DePaepe, Project Manager

Accident Locations

- New York, NY
- Old Fort, NC
- West Haven, CT
- Chicago, IL
- Trevoise, PA
- Philadelphia, PA
- Harpursville, NY
- Mathis, TX
- Washington, DC
- Socorro, NM
- Walnut Creek, CA
- Bradner, OH
- Marianna, FL
- Leasburg, MO

Natural Hazards: Mudslide



Natural Hazards: Heat Exhaustion/Stroke

High Temperature + High Humidity + Physical Work = Heat Illness

Education/Prevention

Thermite Welding Pot

IT'S **HOT** OUTSIDE!

STAY COOL. STAY HYDRATED. STAY INFORMED.

STOP

all activity and get to a cool environment if you feel faint or weak.



Drink from two to four cups of water every hour while working. Don't wait until you are thirsty to drink.

Avoid alcohol or liquids containing large amounts of sugar.

Schedule tasks for earlier or later in the day to avoid midday heat.

Wear and reapply sunscreen as indicated on the package.

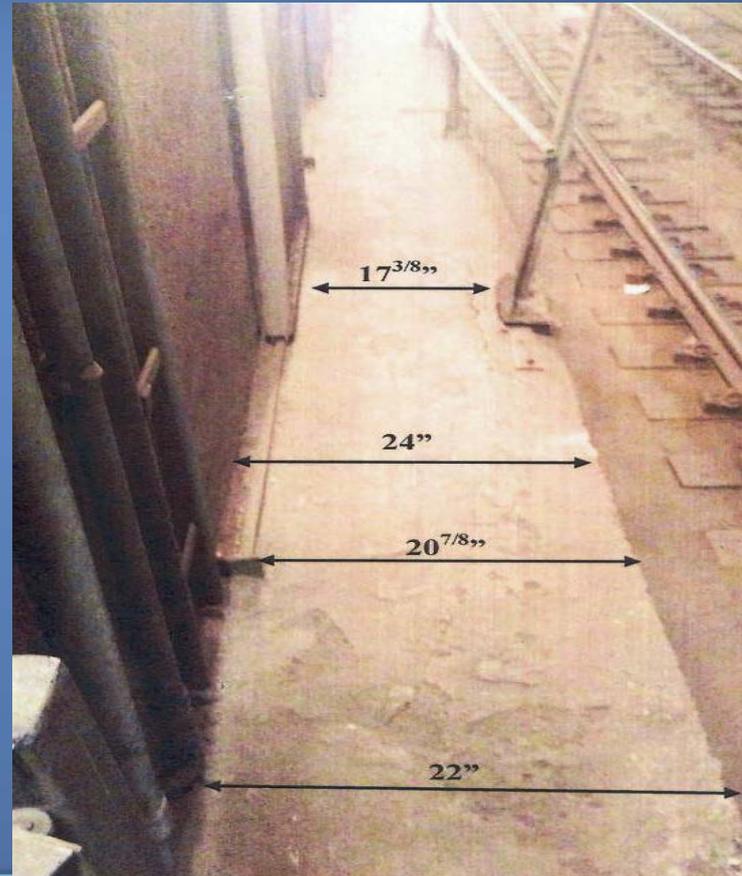
Encourage co-workers to take breaks to cool off and drink water.



Falls: Loose Grating on Bridge



Falls: Rail Transit Subway



Aerial Lifts: Railroad Bridge and Telescopic Lift Bucket



Aerial Lifts: Tipped Over



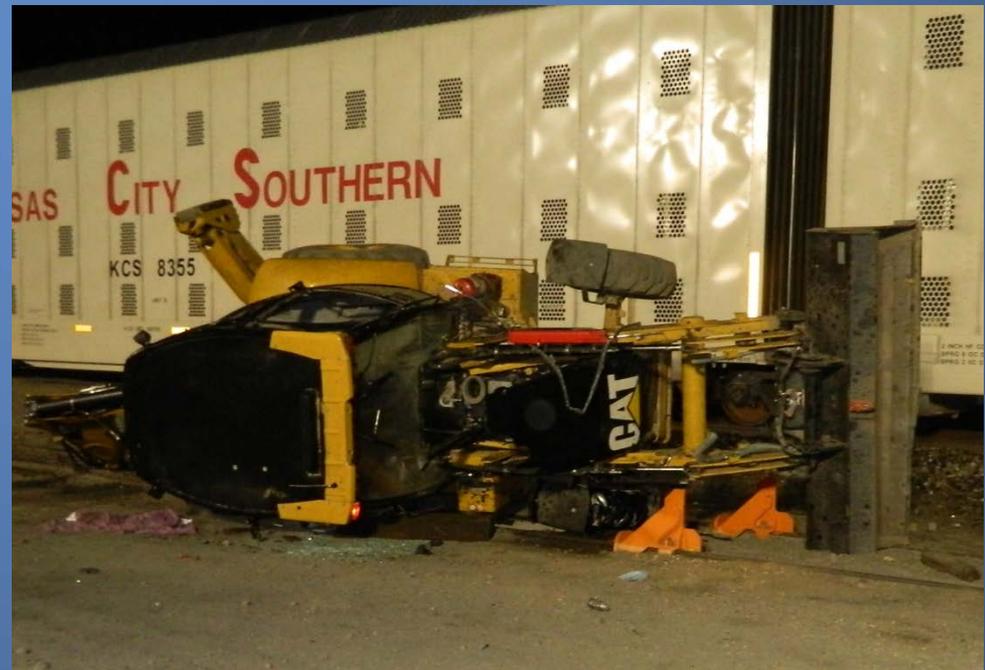
Train Strikes: View of the Work Location and Crane Position



Train Strikes: Hi-Rail Welder Truck



Train Strikes: Backhoe after Impact



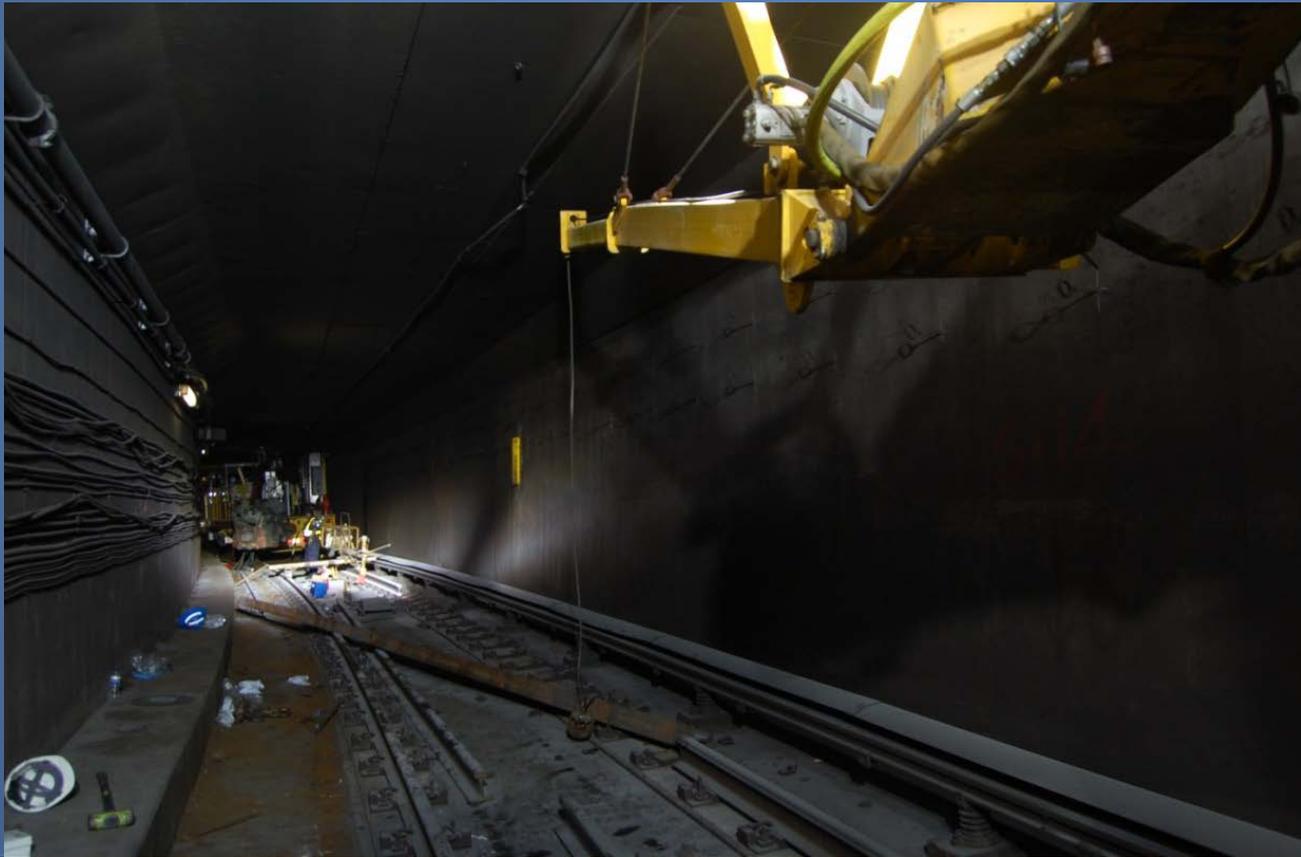
Train Strikes: Walnut Creek, CA



Train Strikes: Adjacent Track Centers



Other Accidents: Crane with Boom and Rail in Tunnel



Other Accidents: Workers at a Highway Rail Grade Crossing



Safety Issues Include:

- Job Briefings
- Regulations and Safety Oversight
- Fatal Analysis of Maintenance-of-Way Employees and Signalmen (FAMES) Committee Scope
- Application of Safety Culture and Safety Management Systems

Proposed Safety Recommendations

- Federal Railroad Administration
- Federal Transit Administration
- Occupational Safety and Health Administration
- Fatality Analysis of Maintenance-of-Way Employees and Signalmen (FAMES) Committee

Special Investigation Team

- Tim DePaepe - IIC
- Dick Hipkind
- Georgetta Gregory
- Ruben Payan
- Mark Jones
- Rick Narvell
- Dr. Bob Beaton
- Meg Athey
- Dr. Stephen Jenner
- Gena Evans
- Cy Gura



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