

Launched
May 2005

National Rail Safety Plan

Federal Railroad Administration

Completed
May 2008

Reduce Human Factor-Caused Accidents

Issue rule to address top human factor /operating practice causes of accidents

Final rule issued
February, 2008

Establish "Confidential Close Call" pilot project to learn from incidents that could have caused accidents, but did not

"Confidential Close Call" data is collected at a Union Pacific Railroad site
February, 2007

Pilot project expanded to a Canadian Pacific Railway site
April, 2008



Address Fatigue

Accelerate research on railroad crew work history to validate a fatigue model

Summary report issued
October, 2006

Bill submitted to Congress seeking authority to regulate railroad worker hours of service based on current scientific fatigue research
February, 2007



Improve Track Safety

Demonstrate vehicle-mounted imaging technology to analyze rail joint bars and identify and detect cracks that lead to derailments

Field testing began
October, 2005

Enhanced technology field testing began
Summer, 2006

Deploy two additional automated track inspection vehicles

FRA T-19 and T-20 automated track inspection vehicles deployed and in service
April, 2007



Improve Hazmat Safety & Emergency Response

Identify promising technology to improve safety in dark territory

BNSF track switch monitoring pilot project begins
November, 2005

First responder timely access to key hazmat information

List of hazmat moving by train annually made available
March, 2005

CSX/CHEMTREC hazmat data sharing pilot project began
July, 2005

Railinc/CHEMTREC hazmat data sharing pilot project began
December, 2006

Accelerate tank car structural integrity research
Hazmat tank car integrity research completed
Fall, 2007

FRA joins the Next Generation Rail Hazmat Tank Car Project
January, 2007



Strengthen FRA Compliance & Enforcement Program

Make better use of data to direct federal rail safety inspectors to where problems may arise

National Inspection Plan fully implemented for all five safety disciplines
March, 2006

Proposal to increase civil penalty guideline amounts
December, 2006



Further Improve Highway-Rail Grade Crossing Safety

Build partnerships with state/local agencies and emphasize railroad responsibilities at highway-rail grade crossings

Safety advisory issued
May, 2005

Assist States in creating grade crossing safety action plans

Louisiana approved state action plan
April, 2006



National Rail Safety Plan

National Rail Safety Action Plan Accomplishments

May 2005

- FRA launches the National Rail Safety Action Plan
- FRA T-18 automated track geometry inspection vehicle begins service
- FRA issues Safety Advisory on Highway-Rail Grade Crossing Safety

July 2005

- With FRA encouragement, CSX Transportation and CHEMTREC (a resource center for emergency responders) begin pilot project to have the railroad share information on an accelerated basis about hazmat train accidents

October 2005

- FRA field tests joint bar crack detection photo imaging technology

November 2005

- FRA funds a pilot program with BNSF Railway to monitor hand-operated track switches in non-signalized, or dark, territory

March 2006

- FRA National Inspection Plan (NIP) is fully implemented for each of the agency's five rail safety disciplines

National Rail Safety Plan

National Rail Safety Action Plan Accomplishments

April 2006

- With FRA assistance, the Louisiana Department of Transportation and Development approves a state highway-rail grade crossing safety action plan

October 2006

- FRA issues proposed rule on human factor-caused train accidents

November 2006

- FRA issues summary report on validation of a fatigue measurement model for use in train crew scheduling

December 2006

- With FRA encouragement, Railinc Corporation and CHEMTREC begin a pilot project to provide information to emergency responders more quickly regarding hazmat shipments on short line and regional railroads

January 2007

- FRA joins Union Pacific Railroad, Dow Chemical Company and Union Tank Car on the Next Generation Rail Tank Car (NGRTC) cooperative research project to improve hazmat tank car safety
- FRA announces the first Positive Train Control (PTC) system approved under revised federal regulations for use in regular freight service

National Rail Safety Plan

National Rail Safety Action Plan Accomplishments

February 2007

- FRA Confidential Close Call and Reporting System (C3RS) pilot project begins on the Union Pacific Railroad

April 2007

- FRA T-19 and T-20 automated track geometry inspection vehicles begin service

July 2007

- FRA completes research on material testing for Dynamic Fracture Toughness in support of strengthening rail hazmat tank car safety

August 2007

- FRA completes research on Dynamic Forces in Train Accidents in support of strengthening rail hazmat tank car safety

February 2008

- FRA issues final rule on human factor caused train accidents

April 2008

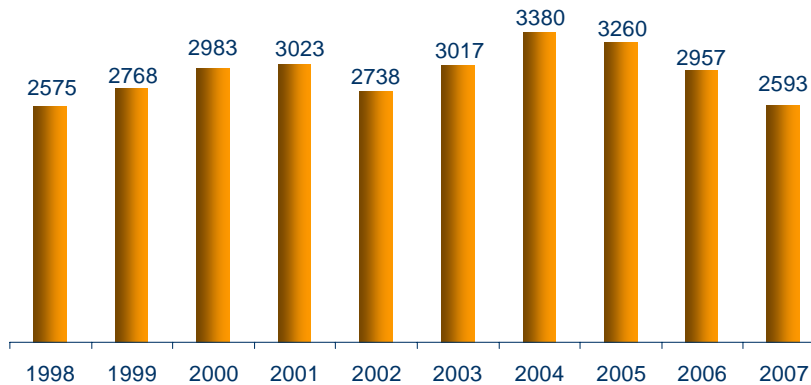
- FRA adds the Canadian Pacific Railway to the Confidential Close Call and Reporting System (C3RS) pilot project
- FRA and PHMSA issue proposed rule to strengthen rail hazmat tank cars

May 2008

- FRA issues National Rail Safety Action Plan Final Report

National Rail Safety Plan

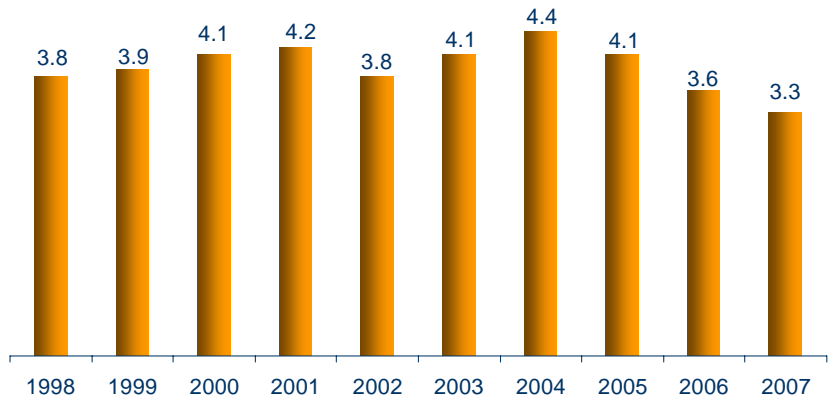
Total Train Accidents



Highway-Rail Grade Crossing Accidents not included

2003-2007 Values Preliminary

Train Accident Rate (per million train miles)



Highway-Rail Grade Crossing Accidents not included

2003-2007 Values Preliminary