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Research Reports

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RESEARCH & DEVELOPMENT (R&D;) REPORTS

REPORT NUMBER	TITLE
DOT/FRA/ORD-06/14	Use of Dynamic Rail Deflection as a Means of Determining Changes in Top of Rail Friction
DOT/FRA/ORD-06/13	Development of Gage Widening Projection Parameter for the Deployable Gage Restraint Measurement System
DOT/FRA/ORD-06/12	Damage Assessment of Railroad Tank Cars Involved in Accidents: Phase I - Literature Search and Evaluation.
DOT/FRA/ORD-06/11	Survivability of Railroad Tank Car Top Fittings in Rollover Scenario Derailments
DOT/FRA/ORD-06/10	Rail Crew Resource Management (CRM): Survey of Teams in the Railroad Operating Environment andIdentification of Available CRM Training Methods
DOT/FRA/ORD-06/09	A Comparative Risk Assessment of Remote Control Locomotive Operations versus Conventional Yard Switching Operations
DOT/FRA/ORD-06/08	Remote Control Locomotive Operations: Results of Focus Groups with Remote Control Operators in the United States and Canada
DOT/FRA/ORD-06/07.I	Investigation of Cracks in Acela Coach Car Brake Discs: Test and Analysis Volume I - Final Report
DOT/FRA/ORD-06/07.II	Investigation of Cracks in Acela Coach Car Brake Discs: Test and Analysis Volume II - Appendices
DOT/FRA/ORD-06/05	Human Factors Root Cause Analysis of Accidents/Incidents Involving Remote Control Locomotive Operations
DOT/FRA/ORD-06/03	Highway-Rail Grade Crossing Safety Research: Railroad Infrastructure Trespassing Detection Systems Research in Pittsford, New York.
DOT/FRA/ORD-05/06	Evaluation of Options for Improving Amtrak's Passenger Accountability System
DOT/FRA/ORD-05/05	Real-Time Measurement of Track Modulus from a Moving Car
DOT/FRA/ORD-05/03	Comparative Safety of the Transport of High-Level Radioactive Materials on Dedicated, Key and Regular Trains - Technical Study
DOT/FRA/ORD-05/01	Fiberglass Wrapped Tie Performance Evaluation Report
DOT/FRA/ORD-04/18	Human Factors Phase III: Effects of Train Control Technology on Operator Performance
DOT/FRA/ORD-04/17	Human Factors Phase IV: Risk Analysis Tool for New Train Control Technology
DOT/FRA/ORD-04/16	On-line High-speed Rail Defect Detection
DOT/FRA/ORD-04/13.i	Supporting Railroad Roadway Worker Communications with a Wireless Handheld Computer: Volume I - Usability for the Roadway Worker
DOT/FRA/ORD-04/13.ii	Supporting Railroad Roadway Worker Communications with a Wireless Handheld Computer: Volume II - Impact on Dispatcher Performance
DOT/FRA/ORD-04/12	Preview Information in Cab Displays for High-Speed Locomotives
DOT/FRA/ORD-04/11	Impact of Data Link Technology on Railroad Dispatching Operations

DOT/FRA/ORD-04/10	Effects of Supervisory Train Control Technology on Operator Attention
DOT/FRA/ORD-04/03	Proceedings of the Human Factors Workshop: Improving Railroad Safety Through Understanding Close Calls
DOT/FRA/ORD-04/01	Optimizing Staffing Levels and Schedules for Railroad Dispatching Centers
DOT/FRA/ORD-03/29	Gage Restraint Measurement System Comparison Tests: Railbound and Hi-Rail Vehicles
DOT/FRA/ORD-03/25	Tread Metal Buildup on Railroad Freight Car Wheels – Dynamometer Simulation
DOT/FRA/ORD-03/24	Estimation of Residual Stresses in Railroad Commuter Cars Wheels Following Manufacture
DOT/FRA/ORD-03/21	Railroad Tank Relief Valve Requirements for Liquid PIH Lading
DOT/FRA/ORD-03/19	Fatigue Behavior of Railcar Wheel Steel at Ambient and Elevated Temperature
DOT/FRA/ORD-03/18	Passenger Train Grade Crossing Impact Tests: Test Procedures, Instrumentation and Data
DOT/FRA/ORD-03/17.i	Passenger Rail Train-to-Train Impact Test Volume I Overview and Selected Results
DOT/FRA/ORD-03/17.ii	Passenger Rail Train-to-Train Impact Test Volume II Summary of Occupant Protection Program
DOT/FRA/ORD-03/17.iii	Passenger Rail Train to Train Impact Test Volume III Test Procedures, Instrumentation, and Data
DOT/FRA/ORD-03/16	Catalog of "Common Use" Rail Corridors
DOT/FRA/ORD-03/15	Human Reliability Analysis in Support of Risk Assessment for Positive Train Control
DOT/FRA/ORD-03/13	Vertical Track Modulus in Plastic Composite Tie Test Zones at FAST
DOT/FRA/ORD-03/12	Railroad Dispatcher Communications Training Materials
DOT/FRA/ORD-03/09	Selection of Railroad Dispatcher Candidates
DOT/FRA/ORD-03/07	Evaluation of Concepts for Locomotive: Crew Egress
DOT/FRA/ORD-03/06	Commuter Rail Seat Testing and Analysisof Facing Seats
DOT/FRA/ORD-03/04	Evaluation of Alternative Detection Technologies for Trains and Highway Vehicles at Highway Rail Intersections
DOT/FRA/ORD-02/06	Human-Centered Incident Investigation Methods for Railroad Industry
DOT/FRA/ORD-02/04	Damage Assessment of Railroad Tank Cars Involved in Accidents: Phase II - Modeling and Validation
DOT/FRA/ORD-02/03	Locomotive Crashworthiness Research: Locomotive Crew Egress Evaluation
DOT/FRA/ORD-02/01	Rail Commuter Vehicle Curving Performance
DOT/FRA/ORD-01/23	Locomotive Crashworthiness Research: Modeling, Simulation, and Validation
DOT/FRA/ORD-01/21.i	Evaluation of Semi-Empirical Analyses for Railroad Tank Car Puncture Velocity, Part I: Correlations with Experimental Data
DOT/FRA/ORD-01/21.ii	Evaluation of Semi-Empirical Analyses for Railroad Tank Car Puncture Velocity, Part II: Correlations with Engineering Analyses
DOT/FRA/ORD-01/20	An Examination of Railroad Yard Worker Safety
DOT/FRA/ORD-01/18	Progress in Rail Research Integrity Research
DOT/FRA/ORD-01/16	Fire Safety of Passenger Trains Phase II: Application of Fire Hazard Analysis Techniques
DOT/FRA/ORD-01/14	Effects Of Coupler Height Mismatch On The Structural Integrity Of Railroad Tank Car Stub Sills

DOT/FRA/ORD-01/08	A Preliminary Examination of Railroad Dispatcher Workload, Stress, and Fatigue
DOT/FRA/ORD-01/07	Safety of Railroad Passenger Vehicle Dynamics: OMNISIM Simulation and Test Correlations for Passenger Rail Cars
DOT/FRA/ORD-01/05	Safety of Railroad Passenger Vehicle Dynamics: Final Summary Report
DOT/FRA/ORD-01/04	Railroad Tank Car Nondestructive Methods Evaluation
DOT/FRA/ORD-01/02	Understanding How Train Dispatchers Manage and Control Trains - Results of a Cognitive Analysis
DOT/FRA/ORD-00/07	Recognition of Rail Car Retroreflective Patterns for Improving Nighttime Conspicuity
DOT/FRA/ORD-00/06.ii	Acoustic Detection of Railcar Roller Bearing Defects: Phase II, Field Test Report
DOT/FRA/ORD-00/06.iii	Acoustic Detection of Rail Car Roller Bearing Defects: Phase III, System Evaluation Test
DOT/FRA/ORD-00/04	Switching Operations Fatality (SOFA) Analysis: Findings and Recommendations of the SOFA Working Group
DOT/FRA/ORD-00/02.i	Single Passenger Rail Car Impact Test Volume I: Overview and Selected Results
DOT/FRA/ORD-00/02.ii	Single Passenger Rail Car Impact Test Volume II: Summary of Occupant Protection Program
DOT/FRA/ORD-00/02.iii	Single Passenger Rail Car Impact Test Volume III: Test Procedures, Instrumentation and Data

RAILROAD DEVELOPMENT (RDV) REPORTS

REPORT NUMBER	TITLE
DOT/FRA/RDV-02/02	Five-Year Strategic Plan for Railroad Research, Development, and Demonstrations
DOT/FRA/RDV-00/05	Assessment of Risks for High-Speed Rail Grade Crossings on the Empire Corridor Next Generation High-Speed Rail Program
ENSCO Report DOT-FR-05-07	Investigation of Cracks in Acela Coach Car Brake Discs: Test and Analysis Volumes I & II - Final Report (November 2005)

MAGNETIC LEVITATION (MAGLEV) REPORTS

REPORT NUMBER	TITLE
VNTSC-FRA-02-13	Noise Characteristics of the Transrapid TR08 Maglev System
VNTSC-FRA-02-11	Electromagnetic Field Characteristics of the Transrapid TR08 Maglev System
VNTSC-FRA-02-06	Vibration Characteristics of the Transrapid TR08 Maglev System

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