

MD-12 AAR FAILED AXLE REPORT

(FREIGHT CAR, PASSENGER CAR, AND LOCOMOTIVE)

(DO NOT REPORT TURNED-OUT JOURNAL CAUSED BY BEARING/ASSEMBLY FAILURE)

CAR SERIAL 		KIND OF EQUIPMENT B—Box C—Cab F—Flat G—Gondola H—Hopper L—Coal, Pulp. P—Pass. R—Riding S—Shed T—Tank O—Other 1—Locs. Switch. 2—Locs. Pass. 3—Locs. Road		DATE OF FAILURE Month Day Year 		TYPE OF AXLE (SEE SKETCH BELOW) 2, 4, 5 	
CAR NUMBER 		LOCATION OF FRACTURE JR—Journal WS—Wheel Seat BA—Body of Axle SS—Support Bearing		AXLE DIAMETER (INCH FRACTION) 5 1/2 = 15—250 5 = 1—300 4 1/2 = 12—350 1 = 12—175		WHEEL MOUNTING DATE Month Year 	
MANUFACTURING INFORMATION (see reverse side) Manufacturer 						FAILURE ORIGIN Surface Damage ☐ Internal Damage ☐	
Serial Number 							
DATE OF FAILURE CAUSE DERAILMENT Y—Yes ☐ N—No ☐		RAILROAD REPORTING MARKS 		JOURNAL REPAIR (if present) Y Y		FOR JOURNAL FRACTURE: Was V Information On? Failed End ☐ Opposite End ☐	
 No. 2—Block Collar—Roller Bearing  No. 4—Roller Bearing—Patented Wheel Seat  No. 3—Locomotive Axle with Axle-Box							
Nearest City of Failure: _____						Date: _____	
Name of Person Compiling Report: _____ Title: _____ Address: _____						Mail to: AAR, Committee Manager Association of American Railroads 1400 15th St. N.W. Washington, D.C. 20004 Phone: (202) 639-6000 Fax: (202) 639-6000	

AAR Form MD-12 Failed Axle Report—Rev. 04/2012
Paragraph 3.3.1

(Fig. 4.73)

Aar Manual

**United States. Congress. Senate.
Committee on Commerce, Science,
and Transportation. Subcommittee on
Surface Transportation**

Aar Manual:

Technical Manual United States Department of the Army, 1966 Technical Manual United States. War Department, 1973 Code of Federal Regulations , 1999 Special edition of the Federal Register containing a codification of documents of general applicability and future effect with ancillaries **Manuals Combined: Over 20 U.S. Army Locomotive, Rail Car And Railroad Trackage Manuals** , Over 4 100 total pages Just a sample of the contents 256 page Army TRAIN RAILROAD RAILCAR Manual FULL TITLE MAINTENANCE OF RAILWAY CARS Published by the Department of the Army on 28 August 1972 current 174 page U S Technical RAILROAD Design FULL TITLE Technical Instructions Railroad Design and Rehabilitation Published 1 March 2000 207 page U S Navy RAILROAD Handbook FULL TITLE NAVY RAILWAY OPERATING HANDBOOK 207 pages Published by the Department of the Navy June 1999 U S Army RAILROAD LOCOMOTIVE Operations Manual FULL TITLE RAILWAY OPERATING AND SAFETY RULES Published by the Department of the Army on 17 July 1989 139 page Army RAILROAD Rolling Stock Manual Six Lessons 139 pages on CD ROM FULL TITLE RAILWAY ROLLING STOCK Published by the Department of the Army on 1 June 1997 274 page B B 160 LOCOMOTIVE Operator Manual FULL TITLE OPERATOR AND UNIT MAINTENANCE MANUAL LOCOMOTIVE DIESEL ELECTRIC 56 1 2 INCH GAGE 80 TON 670 HP 0 4 4 0 WHEEL MODEL B B 160 160 4GE747 A1 Published by the Department of the Army on 22 May 1991 268 page Army BALDWIN LIMA Locomotive Manual FULL TITLE OPERATOR AND UNIT MAINTENANCE MANUAL LOCOMOTIVE DIESEL ELECTRIC 56 1 2 INCH GAGE 60 TON 500 HP 0 4 4 0 WHEEL MODEL RS 4 TC 1A Published by the Department of the Army on 8 January 1987 419 page Army GE B B 160 Locomotive Manual FULL TITLE INTERMEDIATE DIRECT SUPPORT AND INTERMEDIATE GENERAL SUPPORT MAINTENANCE MANUAL LOCOMOTIVE DIESEL ELECTRIC 56 1 2 INCH GAGE 80 TON 670 HP 0 4 4 0 WHEEL MODEL B B 160 160 4GE747 A1 Published by the Department of the Army on 21 July 1987 396 page B B 160 LOCOMOTIVE Parts Manual FULL TITLE UNIT INTERMEDIATE DIRECT SUPPORT AND GENERAL SUPPORT REPAIR PARTS AND SPECIAL TOOLS LIST LOCOMOTIVE DIESEL ELECTRIC 56 1 2 INCH GAGE 80 TON 670 HP 0 4 4 0 WHEEL MODEL B B 160 160 4GE747 A1 NSN 2210 01 158 2980 Published by the Department of the Army on 31 March 1993 90 page 1955 Davenport LOCOMOTIVE Maintenance Manual FULL TITLE LOCOMOTIVE DIESEL ELECTRIC 56 GAGE 44 TON 0 4 4 0 400 HP DAVENPORT BESLER Published by the Department of the Army on 8 November 1955 Conducting After Action Reviews for animal health emergencies Callan, T., Bonbon, E., Gbaguidi, L., Nzietchueng, S., Tenenbaum, N., 2022-01-27 In today s world the risk of spread of animal health diseases within a country or across borders is on the rise Contributing factors include growing animal populations increased movement of humans and animals market intensification and global trade Animal health services around the world play an essential role in curbing animal disease spread They do so by increasing their capacity to manage animal health emergencies preparing for such events during peacetime and reflecting on lessons learned during the reconstruction phase These actions look to

enhance a country's state of operational readiness ahead of future events. Carrying out an After Action Review (AAR) of a country's emergency response is an integral part of learning; it provides countries with the opportunity to highlight what they have done well and what gaps remain to be filled in terms of animal health emergency management. This AAR manual outlines current practices for organizational learning and how they can be applied in the context of animal health emergencies. It details the steps to perform an animal health emergency AAR and leads readers through designing, preparing, conducting, and reporting on an AAR. Veterinary services and competent authorities responsible for managing the response to animal health emergencies can apply the principles discussed in this manual to AARs at the country level or in other settings such as producer organizations, multicountry regional commissions, or international organizations. *An Index of U.S.*

Voluntary Engineering Standards United States. National Bureau of Standards, 1971. *An Index of U.S. Voluntary Engineering Standards* William J. Slattery, 1971. **Developing an Automated Training Analysis and Feedback System for Tank Platoons** Bill Brown (Cutlery collector), 1997. The Army has adopted the After Action Review (AAR) process as the means of providing feedback after collective training exercises and the quality of AARs depends upon how well trainers can prepare and use data displays to show what happened during exercises and guide interactive discussions on how to improve unit performance. A previous report described a demonstration of the capability of the Automated Training Analysis and Feedback System (ATAFS) to automatically generate AAR aids after exercises in the networked simulator environment. This report describes the results of a follow-on effort to complete the development of the complete set of planned AAR capabilities and test the prototype ATAFS in a mix of Army National Guard training environments. DTIC. **The Code of Federal Regulations of the United States of America**, 2006. The Code of Federal Regulations is the codification of the general and permanent rules published in the Federal Register by the executive departments and agencies of the Federal Government.

Manual Skills, Handedness, and the Organization of Language in the Brain Gregory Króliczak, Claudia L. R. Gonzalez, David P. Carey, 2019-08-15. Whereas the cerebral specialization for skilled manual actions (praxis) seems closely linked to dominance for language with both functions left lateralized in the vast majority of humans, the neural correlates of hand preference are still less well understood. Indeed, as a combination of inherited and non-inherited genomic factors, i.e., direct parental and concealed environmental contributions, handedness, in contrast to language, is less likely to have strong genetic indices and clearly lateralized functional organization. What about eye dominance, unimanual and bimanual object manipulation and gestures, or attentional systems and the related egocentric or allocentric coding of space? Are these different categories functionally and structurally interconnected? Is their development and contribution to task performance linked even if they are differently lateralized? How are they connected to language learning or its development? In trying to understand these relationships and their neural underpinnings, we obtain a new insight into fundamental human behaviors which depend either on shared or distinct cerebral resources that must nevertheless be harmonized by higher order cerebral

processing In this Research Topic we assembled a dozen of original research contributions as well as articles with more theoretically driven perspectives that directly speak to these issues Hopefully this work will serve as a foundation for further discussions and will stimulate new research in this fascinating domain

Guidebook for Implementing Passenger Rail Service on Shared Passenger and Freight Corridors Alan J. Bing,2010 This Guidebook will aid states in developing public private partnerships with private freight railroads to permit operation of passenger services over shared use rail corridors The Guidebook should encourage the broad acceptance of improved principles processes and methods to support agreements on access allocation of operation and maintenance costs capacity allocation operational issues future responsibilities for infrastructure improvements and other fundamental issues that will affect the ultimate success of shared use passenger and freight agreements between public and private railroad stakeholders *Transportability Guidance* ,1991

Directory of Engineering Document Sources ,1989 **Federal Register** ,2013 **MEDICON'23 and CMBEBIH'23** Almir Badnjević,Lejla Gurbeta Pokvić,2024-01-03 This book presents cutting edge research and developments in the broad field of medical biological engineering and computing This is the first volume of the joint proceedings of the Mediterranean Conference on Medical and Biological Engineering and Computing MEDICON and the International Conference on Medical and Biological Engineering CMBEBIH which were held together on September 14 16 2023 in Sarajevo Bosnia and Herzegovina Contributions report on advances in biomedical signal processing and bioimaging medical physics and pharmaceutical engineering Further they cover applications of artificial intelligence and machine learning in healthcare

Wheel-Rail Interface Handbook R. Lewis,U Olofsson,2009-09-25 Many of the engineering problems of particular importance to railways arise at interfaces and the safety critical role of the wheel rail interface is widely acknowledged Better understanding of wheel rail interfaces is therefore critical to improving the capacity reliability and safety of the railway system Wheel rail interface handbook is a one stop reference for railway engineering practitioners and academic researchers Part one provides the fundamentals of contact mechanics wear fatigue and lubrication as well as state of the art research and emerging technologies related to the wheel rail interface and its management Part two offers an overview of industrial practice from several different regions of the world thereby providing an invaluable international perspective with practitioners experience of managing the wheel rail interface in a variety of environments and circumstances This comprehensive volume will enable practising railway engineers in whatever discipline of railway engineering infrastructure vehicle design and safety and so on to enhance their understanding of wheel rail issues which have a major influence on the running of a reliable efficient and safe railway One stop reference on the important topic of wheel rail interfaces Presents the fundamentals of contact mechanics wear fatigue and lubrication Examines state of the art research and emerging technologies related to wheel rail interface and its management **Annual Meeting ...** Association of American Railroads. Signal Section,1959 Oversight and Reauthorization of Rail Safety Programs and S. 2132, the Federal Railroad Safety

Authorization Act United States. Congress. Senate. Committee on Commerce, Science, and Transportation. Subcommittee on Surface Transportation, 1994 Distributed to some depository libraries in microfiche *NBS Special Publication* , 1971

Ensuring Railroad Tank Car Safety , 1994 Examines the overall process for ensuring tank car design safety and more specifically whether all tank cars carrying hazardous materials should be equipped with special safety devices known as head shields to prevent tank car head end punctures

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