

Safety Research Report Index - Airbags and Crashworthiness

A. BACKGROUND

1. "Volpe Calls Air Bags A Must on '72 Models," Automotive News, 6/9/69.
2. "Vehicles May Need Inflatable Air Bags As Safety Feature," Wall Street Journal, 7/3/69.
3. "Ford to Introduce a Safety Air Bag on the '71 Mercury," New York Times, 8/22/69.
4. "Air Bags: Where Do Car Men Stand?" Washington Star, 7/19/71.
5. "Fears Over Liability Cloud Air Bag Future," Detroit News, 1/29/78.
6. "Fleet Operators Cite Readiness For Car Airbag," New York Times, 3/1/83.
7. "The Air Bag Goes to Court," New York Times, 10/29/84.
8. "Auto Industry Tools Up for Air Bags," Status Report, 12/7/85.
9. "Fleet Buyers Get Latest Facts & Figures," Status Report, 12/28/85.
10. "Judge Clears Way For Suit On Lack of Airbags," Automotive News, 6/1/92.
11. "Seat Belts or Air Bags? Study Says Both," New York Times, 6/26/92.
12. "Air Bags Greatly Lower Fatality Risk, NHTSA Evaluation Finds," Highway & Vehicle Safety Report, 7/13/92.
13. "Driver Deaths Down Substantially in Cars Equipped with Air Bags," Status Report, 10/3/92.
14. "Bags & Belts, Deflating the Myths, Special Report," series of articles in Detroit Free Press, 11/23/92.
15. "Nissan Develops Innovative Rear-Seat Air Bag," Highway & Vehicle Safety Report, 11/30/92.
16. "Ford Settles Lawsuit Charging It Should Have Equipped Vehicle With Passenger-Side Air Bag," FuelLine, 11/92.
17. "Air Bags Do the Job, Studies Report," TRIAL, 2/93.
18. "Now, A Rear Air Bag," Newsday, 4/28/93.
19. "New Cadillac Airbag To Protect One in Middle," USA Today, 7/6/93.
20. "Applications for Airbags Grow," Automotive News, 7/19/93.

B. PLAINTIFF ATTORNEYS WITH AIR BAG CASES

C. RESOURCES

1. Key Contacts from the Early 1980s
2. Current Experts

D. OVERVIEW ON OCCUPANT PROTECTION

E. CHRONOLOGY & RULEMAKING

1. Public Citizen, "Three Decades of Industry Development & Delay," 1985.
2. FMVSS 208: Occupant Protection
3. FMVSS 208 Rulemaking History.
4. Key FMVSS 208 Federal Register Notices from 11/3/70 to 9/2/93.
 - a. Amendment, 35 FR 16927, 11/3/70.
 - b. Amendment, 36 FR 4600, 3/10/71.
 - c. ANPRM, 39 FR 10273, 3/19/74.
 - d. Secretary's decision, 12/6/76.
 - e. Final Rule, FMVSS 208, 42 FR 24289, 7/5/77.
 - f. Grant of Petition for Rulemaking, 46 FR 10428, 2/2/81.
 - g. Nader Petition (increase barrier crash speed of FMVSS 208), 7/20/80.
 - h. Proposed Rule (delay automatic restraint implementation), 46 FR 12033.
 - i. Final Rule (delay implementation of requirements), 46 FR 21172, 4/9/81.
 - j. Final Rule (rescind automatic restraint requirements), 46 FR 53419, 10/29/81.
 - k. Proposed Rule, 48 FR 43623, 10/19/83.
 - l. DOT Press Release, 7/11/84.
 - m. Final Rule (installation of automatic restraints by 1990), 49 FR 28962, 7/17/84.
 - n. Final Rule (convertible exemption, HIC modification), 51 FR 37028, 10/17/86.
 - o. Final Rule (extend one car credit beyond phase-in period), 52 FR 10096, 3/30/87.
 - p. Proposed Rule (extension to light trucks), 55 FR 747, 1/9/90.
 - q. Final Rule (extension to LTVs), 56 FR 12472, 3/26/91.
 - r. Final Rule (Mandatory Airbags for Cars, Light Trucks, Vans) 58 FR 46551, 9/2/93.
5. CAS, "History of Federal Motor Vehicle Safety Standard No. 208- Passive Restraints,"
6. Litigation Challenging FMVSS No. 208, 1972-73.
7. "GM and the Air Bag: a Decade of Delay," IIHS Status Report, 6/25/80; GM response, 7/21/80.
8. Center for Study of Responsive Law, "Awards to Inventors & Technical Pioneers of the Airbag," 12/3/91.

F. FATALITY DATA BY MAKE & MODEL, 1975-82

G. KEY AUTO MANUFACTURER COMMUNICATIONS ON AIR BAGS (1968-83)

1. Auto Industry Statements, Letters, & DOT Meetings, 1968-81.
2. List of GM Technical Papers & Articles on Air Bags, 1966-84.

H. PRESIDENT NIXON & AIR BAGS

1. Transcript of meeting between President Nixon, Lee Iacocca, Henry Ford, & John D. Ehrlichman, 4/27/71.
2. Memos & Statements on Nixon-Ford Air Bag Meeting.

I. EARLY MARKETING OF THE AIR BAG

1. Mercedes-Benz Advertisements, 1984.
2. NHTSA, "Retrospective Analysis of the GM Air Cushion Restraint System Marketing Effort, 1974-76," 10/83.
3. Ford Advertisement & DOT Commentary, 1971.
4. NHTSA, "Frequently Asked Questions," 1971.
5. Mercedes-Benz statement, 12/11/85.
6. Romeo-Kojyo Fleet Retrofits, 1985.

J. AIR BAG PERFORMANCE

1. Summary of 1972-76 Air Bag Fleet Fatal Crashes.
2. NHTSA, "Non-crash Deployments 1973-77."
3. NHTSA, "History of Air Bag Inflation Crashes, 1973-77."
4. NHTSA, "Automobile Occupant Crash Protection Progress Report No. 3," 7/80.
5. NHTSA Memo on FMVSS 208 & Product Liability, 6/22/77.
6. Request for Comments (Evaluation Plan for Passenger Car Front Seat Occupant Protection), 55 FR 1586, 1/17/90.
7. Manufacturer Comments on Evaluation Plan for Automatic Restraints
 - a. Summary of Comments, 7/90.
 - b. Ford Comments, 5/16/90.
 - c. GM Comments, 5/16/90.
 - d. Mercedes-Benz Comments, 5/16/90.
8. NHTSA, "Evaluation of the Effectiveness of Occupant Protection, FMVSS 208," 6/92.
9. IIHS, "Survey of Attitudes of Drivers in Air Bag Deployment Crashes," 3/93.
10. B. O'Neill & A.K. Lund, "Effectiveness of Air Bags in Preventing Driver Fatalities in the US," 10/19/92.

K. CRASH TESTS

1. Research & Compliance Crash Tests 1979-84.
2. Restraint System Tests Summary, 1967-79.
3. New Car Assessment Tests with Seat Belts, 1979-84.
4. Air Bag Evaluation Crash Tests by Ford Motor Co., 1969-75.
5. Two Ford Pinto Air Bag Test Reports, 1971.
6. Compliance with FMVSS 208, 1993.

L. FEDERAL FLEET DEMONSTRATION PRESS RELEASES, 1985

1. DOT, "Federal Cars to Get Air Bags," 3/14/83.
2. DOT, "DOT to Test Air Bag Kits in Police Cars," 5/5/83.
3. DOT, "Police Vehicles in Six States in NHTSA Air Bag Program," 7/6/83.
4. GSA, "Ford Wins \$35,000,000 Award for GSA-NHTSA Test of Air Bags" & Fact Sheet, 2/22/84.
5. Ford release regarding government contract, 2/22/84; Ford, "Ford's Supplemental Air Bag System," 12/1/83 (attachment).

M. TECHNOLOGY & AIR BAG AVAILABILITY IN THE 1970s

1. "Air Bag Reliability Demonstration," Dynamic Science, 1972.
2. "Passive Protection at 50 Miles Per Hour," NHTSA, 6/72.
3. "Evaluate Air Bag Restraints for Subcompact Car Drivers," Southwest Research Institute, 5/73.
4. "Evaluate Air Bag Restraints for Subcompact Car Passengers," Southwest Research Institute, 5/73.
5. "Subcompact Vehicle Tests with Inflatable Restraints," Agbabian Associates, 12/73.
6. "Development of an Advanced Passive Restraint System for Subcompact Car Drivers (Executive Summary)," NHTSA, 5/75.

7. DOT Fact Sheet on Research Safety Vehicle, 6/79.
8. "Small Car Safety in the 1980's; Technology Available for Safe Small Cars," NHTSA, 1981.
9. "Systems Analysis Approach to Air Bag Design & Development," NHTSA, 10/80.
10. NHTSA Letter to Auto Manufacturers on Vehicle Design & Occupant Protection, 11/28/80.

N. PREPARING AN AIR BAG CASE

1. "Air Bag Litigation," Teret & Downey, TRIAL, 7/82.
2. "Occupant Protection in Automobiles--Air Bags & Other Passive Restraints: The State of the Art, the Federal Standard, & Beyond," American University Law Review, Spring 1978.
3. "Manufacturers Liability for Non-Use of Air-Bags," NHTSA memo, 4/22/80.
4. Burgess v. Ford Pre-Trial Order, 4/82.
5. Burman v. Ford Complaint (extract), 10/82.
6. Letters from Trial Lawyers for Public Justice & Public Citizen to Judge Daniel Roders Requesting Removal of Protective Order in Burgess v. Ford, 4/16/84.
7. "Reconstruction of Road Accident Involving Thoracic Injuries," NHTSA, 4/83.
8. "Advanced Crashworthiness & Airbags," Automobile Design Liability, 3rd Ed., 1993.
9. Amicus Brief, preemption, Neilson v. Dr. Ing, et al., (9th Cir. No. 91-35866, 9/13/91).

O. TRIAL DEFENSES

1. MYTHS
 - a. National Coalition to Reduce Car Crash Injuries, "Myths & Facts About Air Cushions," 1984.
 - b. National Coalition to Reduce Car Crash Injuries, "Public Opinion About Automatic Occupant Restraint," 1983 (Attachment- List of Public Opinion Surveys on Air Bags, 1973-83).
 - c. GM Letter to Congress, 4/2/94; GM, "Passive Restraint Study," 11/30/83.
2. REPEATABILITY
 - a. Repeatability Crash Test Program
 - 1) NHTSA Summary of Preliminary Test Results for Repeatability Program, 7/28/83.
 - 2) NHTSA Memos to Docket 83-03, 4/12/83.
 - 3) DOT Press Release on Crash Test Repeatability, 8/31/83.
 - 4) IIHS Comments to Docket 74-14, 4/10/84. (attachments)
 - 5) Ford Comments to Docket 83-03/74-14, 12/16/83. (attachments)
 - 6) Ford Supplement, 2/13/84. (attachments)
3. AIR BAG EFFECTIVENESS
 - a. GM Matched Case Methodology for Estimating Air Bag Effectiveness.
 - 1) IIHS to GM, 10/26/77.
 - 2) NHTSA, "Effectiveness of Automatic Crash Protection Systems in Life Saving and Injury Reduction," 1979.
 - 3) GM letter to NHTSA, 8/31/77.
 - 4) Representative Bob Eckhardt letter to IIHS, 9/14/77; IIHS response, 9/26/77. (attachment)
4. AIR BAG COST & ECONOMICS
 - a. NHTSA Fact Sheets, Memoranda, Analyses, & Correspondence, 1977-81.
5. AIR BAGS & CHILDREN
 - a. NHTSA, "Theories of Injury to Small Children in Crashes of Automobiles with Automatic Restraints," 7/80.
 - b. NHTSA memo on children in cars with automatic protection, 7/80.
6. SODIUM AZIDE
 - a. NHTSA, "Sodium Azide in Automatic Air Bags" (summary & extract), 2/81.
7. SEAT BELTS
 - a. Dan Sullivan Amicus Brief & Opinion from Washington State on Seat Belt Defense, Amend v. Bell, et al., 1976/77.
 - b. NHTSA, "Non-Use of Motor Vehicle Safety Belts as an Issue in Civil Litigation" (Extract), 8/83.
 - c. NHTSA Statistics on Observed Belt Use, 12/83-2/84.
 - d. NHTSA, "Restraint Use & Effectiveness as Estimated from U.S. Accident Files & Observational Surveys," NHTSA, 11/82.
 - e. GM Seat Belt Advertisement, 4/30/84.
 - f. NHTSA Memo on manufacturers opposition to 1967 safety belt rulemaking, 6/14/77.
 - g. IIHS, "Seat Belt Use Campaigns," 5/26/81.
 - h. Seat Belt Recalls, 1967-93.

P. BIBLIOGRAPHY OF AIR BAG INFORMATION, REPORTS, TESTS, COMMENTS & TESTIMONY (through 1984)