

RICHARD D. CURTIS, P. E.

Website: www.curtisengr.com

Curtis Engineering Consulting Services, Inc.
8731 Crestwood Avenue
Munster, Indiana 46321
(219) 838-2045 Voice/Fax

Professional Engineer, Consultant and Technical Expert with 40 years of significant contributions in the freight and passenger vehicle transportation industry.

PROFESSIONAL EXPERIENCE

As a technical consultant to MBTA, NYCT, WMATA, CTA, NICTD, Phoenix Valley Metro, UTA, CALTRANS, IDOT, Detroit People Mover, Seattle Monorail, Oklahoma City and Amtrak, provided technical expertise in an oversight role to insure that the design, manufacture, overhaul and testing met all necessary requirements. Assignments included car structure, trucks, brakes, couplers, doors, interiors, etc.

Major design work on transit, commuter and intercity passenger cars for Chicago, Cleveland, Boston, New Jersey, New York, San Francisco, Washington DC, Atlanta, San Diego, Vancouver, Fort Lauderdale, Los Angeles, Auto Train and Amtrak.

Headed the design team on transit and commuter car trucks for BART, METRA, MARTA, NCTD, West Coast Express, Florida Tri-Rail and LA Metro-Link.

Transit Car design projects have included the NJ Transit Comet I, Amtrak Superliner I, MBTA #1 Red Line, MBTA Commuter, CTS Airporters, NYCT R46, Long Island RR GTE, Auto Train, RoadRailer Mark V and Amtrak MHC cars.

Management and engineering assignments have included the application of the leading edge engineering technology in stress analysis, dynamic analysis, manufacturing methods simulations, and testing methodology. Knowledge of FRA and APTA Standards through work on PRESS Task Force and numerous heavy rail project assignments.

Called upon to solve difficult maintenance and operational problems for several transit authorities and railroads. This included Amtrak's Acela train sets, METRA gallery cars, MBTA transit & commuter cars, Detroit People Movers, Caltrans Bi-Levels & locomotives, and PATCO transit cars.

Directed design related to mid life overhaul and modernization on major contracts including NJ Transit Comet II, Baltimore Metro cars and Amtrak RTL-III Trainsets.

Key role on proposal teams assisting clients in gaining multi-million dollar contracts.

Market studies for several clients have triggered millions of dollars of new business.

Responsible for design, development, procurement, marketing, leasing, operation and maintenance of all types of freight cars. This included industry leading innovative design and development on Double Stack Container Cars, Auto Rack Technology, Unit Train Coal Cars, Coil Steel Cars, Covered Hopper Cars and Heavy Duty Special Purpose Cars.

Responsible for international technology transfer in the areas of passenger car, freight car, passenger car truck, auto rack and RoadRailer design. Have been able to compare and evaluate rail technology around the world during travel to Germany, France, England, Holland, Spain, Japan, Australia and New Zealand.

As an expert witness with both BS and MS degrees in engineering, my years of experience and diversified background have provided a unique background to offer my clients.

CV OF RICHARD D. CURTIS (continued)

CONSULTING SERVICES

- Engineering Management
- Project Management
- Project Planning
- Proposal Evaluations
- Vehicle Engineering
- Systems Engineering
- Engineering Evaluations
- Value Engineering
- Specification Preparation & Evaluation
- Maintenance Practices
- Supplier Evaluation
- Manufacturing Liaison
- Customer Liaison
- Testing Support
- Inspection Services
- Intellectual Property
- Marketing Studies
- Litigation Support

POSITIONS HELD

President - Curtis Engineering Consulting Services
Vice President Engineering - Thrall Car Manufacturing Company
General Superintendent, Research & Engineering - Illinois Central Gulf Railroad
Director New Car Projects - North American Car Corporation
Engineering Project Manager - Pullman Standard

CREDENTIALS

M. S. Engineering, Purdue University
M. S. Business Administration, Indiana University
B. S. Mechanical Engineering, Purdue University
Registered Professional Engineer (Indiana)
Member of American Society of Mechanical Engineers
Member of American Public Transportation Association
Industry Member of NGEC PRIIA 305 Technical Committee
Member of ASME Rail Transit Committee.
Member of APTA PRESS Task Force
Former member of AAR Car Construction Committee
Former member of AAR Quality Assurance Committee
Author of numerous technical articles and papers