

ENGINEER: MECHANICAL

RICHARD A. HARGIS, CFEI, P.E.

Engineering Design & Testing Corp.

Post Office Box 668565

Charlotte, North Carolina 28266-8565

Telephone: (704) 523-2520

EDUCATION:

1983 M.B.A., Xavier University, Cincinnati, Ohio

1977 B.S. Mechanical Engineering, University of Kentucky, Lexington, Kentucky

EXPERIENCE:

February 1996 to Present Engineering Design & Testing Corp., Charlotte, North Carolina.
Consulting Engineer. Specialized consultation of incidents involving machinery and equipment, including cause and origin of fires. Evaluation of industrial accidents and of mechanical design of machines and machine components. Cost estimation of damage to machinery and structures.

February 1995 to December 1995 RECO Industries, Columbia, South Carolina.
Engineer Manager. Designed large capacity A.P.I. storage tanks, including seismic and wind loading, supports and attachments. Designed all aspects of A.S.M.E. pressure vessels per Section VIII, Div. 1.

June 1992 to December 1994 Ross Engineering, Savannah, Georgia.
Chief Engineer. Designed A.S.M.E. pressure vessels, towers, tanks, and rotating equipment. Calculations included seismic and wind loading and critical speed analysis.

April 1984 to May 1992 Day Mixing Company, Cincinnati, Ohio.
Chief Engineer. Supervised design engineers and drafting personnel in design of large specialty industrial mixing equipment for food, pharmaceutical and chemical industries. Designed process systems for above industries including process controls, material handling, testing, and packaging. Supervised troubleshooting of process equipment and process systems. Designed power transmission components including gears and shafts.

November 1982 to April 1984 Henny Penny Corporation, Cincinnati, Ohio.
Project Engineer. Directed product improvement activities incorporating employee and customer suggestions to design and manufacture cost-efficient food processing equipment. Designed automatic breading table for fast food restaurants. Conducted analysis of tilting cabinet and obtained U.L. approval.

EXPERIENCE (continued)

November 1979 Day Mixing Company, Cincinnati Ohio.
to November 1982 Project Engineer. Design analysis of various agitation systems to enable manufacture of larger and more powerful mixers.

April 1979 Stearns and Foster Company, Cincinnati, Ohio.
to November 1979 Project Engineer. Provided engineering support for existing product lines.

January 1978 Day Mixing Company, Cincinnati, Ohio.
to April 1979 Project Engineer. Responsible for product development of industrial mixing equipment.

REGISTRATIONS:

Registered Professional Engineer in North Carolina (#021925)
National Council of Examiners for Engineering & Surveying, Council Record Number 15178
Certified Vehicle Fire Investigator (CVFI #10234-5071V)

PROFESSIONAL ORGANIZATIONS:

American Society of Mechanical Engineers Membership: #485920
ASM International ID: #255833
National Association of Fire Investigators (NAFI): #10234-5071

CONTINUING EDUCATION:

Materials Engineering Institute, ASM International - course completion in Fractography (1998)
Lee Cole & Associates, Incorporated – Investigation of Vehicle Fires (2000)
Southeastern Arson Seminar, International Association of Arson Investigators (2000)
International Association of Arson Investigators, IAAI, Fire Investigative Approaches (2001)
International Association of Arson Investigators, IAAI, Fire Investigative Approaches (2002)
International Association of Arson Investigators, IAAI, Fire Investigative Approaches (2003)
Fire and Explosion Seminar, NAFI/NFPA (2005)
Investigation of Gas and Electric Appliance Fires Seminar, Fire Findings Laboratories (2006)
Vehicle Fire Seminar, NAFI (2007)
International Association of Arson Investigators, IAAI, Fire Investigative Approaches (2009)

(Revised: 06/11)