



David R. Atkins, C.W.I.

Safety and Risk Assessment

PROFESSIONAL EXPERIENCE

2012 – Present Unified Engineering, LP – Aurora, Illinois

- 2006 – 2012 Staff Consultant, Safety and Human Factors, Packer Engineering, Inc.
- 1995 - 2006 Staff Consultant, Machinery, Packer Engineering, Inc.
- 1985 - 1995 Senior Technologist, Materials, Packer Engineering, Inc.
- 1982 - 1985 Technologist, Materials, Packer Engineering, Inc.

Responsible for consultation in the areas of accident investigation and reconstruction, design review and evaluation, failure analysis, materials evaluation and application, and machinery, product, and metallurgical and mechanical testing. Specific areas of expertise include safety and industrial health, safety and quality audits, welding and joining, and nondestructive and laboratory testing. Leads projects involving a broad range of products, equipment and structures such as machinery, buildings, cranes and lifting devices, railcars, process equipment, piping and ancillary equipment, hydraulic and electrical equipment. Has led and managed projects that required development of performance-based criteria including development of standards used in industry. He testifies as an expert witness in personal injury and negligence cases, and in root cause failure analyses.

Has been responsible for investigating and studying quality and safety issues for the petrochemical, power generation, refinery, pipeline, structural, pulp and paper industries, machinery, hand tools, and consumer appliances. Has participated in many safety and health studies relating to product integrity, construction and process safety. Has specialized in the scientific investigation of cause and origin studies for fires and explosions, metallurgical investigations, plant and equipment life extension analysis. He also has considerable experience with investigations of residential, industrial, and construction related accidents, affirmative safety programs, as well as the process, results and implementation of TapRooT® investigations. Worked with the Department of Energy in assessing the safety programs and management systems at National Laboratories.

Supervises, performs and consultation of in-field and laboratory quality and nondestructive testing on upstream hydrocarbon equipment, chemical and hydrocarbon processing equipment, boilers, digesters, deaerators, bridges, electrical systems, structures, storage tanks, piping systems, and electrical and industrial machinery. Has participated in the development and refinement of in-field metallographic examination techniques currently used in today's remaining life studies. Also responsible for the development and implementation of testing programs to validate and refine project recommendations and conclusions and routinely assesses Code and Regulation issues (i.e., ANSI, ASSE, API, ASME, AWS, ASTM, ASNT, CGA, OSHA, CMA, etc.).

ACADEMIC

- M.S. Northern Illinois University, DeKalb, Illinois – Industrial Management, Engineering Technology (1994). Emphasis in Safety.
- B.S. Northern Illinois University, DeKalb, Illinois - Drafting and Design, Industrial Technology (1982)
- A.A.S. College of DuPage, Glen Ellyn, Illinois - Drafting & Design (1980)

CONTINUING EDUCATION

- Fault Tree Analysis (TapRooT®) (2000).
- OSHA Trainer for General Industry (OSHA 501).
- OSHA Update for General Industry Outreach Trainers (OSHA 503).
- OSHA Scaffold User, Confined Space Courses, Fall Protection, Lockout/Tagout.
- OSHA Construction Industry 10 hour card.
- OSHA Construction and General Industry 30 hour cards (OSHA 510 and 511).
- ASM/MEI Failure Analysis Course.

CERTIFICATIONS, AFFILIATIONS, and APPOINTMENTS

CERTIFICATIONS

ASNT-TC-IA Level III Dye Penetrant
ASNT-TC-IA Level III Magnetic Particle
ASNT-TC-IA Level II Ultrasonics
ASNT-TC-IA Level II Radiographic Interpretation
AWS-QC-1 Certified Weld Inspector (CWI)

AFFILIATIONS

American Society for Non-Destructive Testing
American Society of Safety Professionals
American Welding Society

APPOINTMENTS

American Welding Society, Safety and Health Standards Committee

PUBLICATIONS AND PRESENTATIONS

PUBLICATIONS

1. D.R. Atkins, M.A. Urzendowski, R.W. Warke, Nondestructive Testing Handbook, Magnetic Testing, 2nd Edition, Vol 6, “Discontinuities in Ferromagnetic Alloys,” (1989).
2. C. Sease, L.S. Selwyn, S. Zubiate, D.F. Bowers, D.R. Atkins, “Problems with Coated Silver: Whisker Formation and Possible Filiform Corrosion,” (1996).

3. D.G. Curry, R.D. Quinn, D.R. Atkins, and T.C.G. Carlson, "He was too experienced to have done something like that!," Professional Safety (September 2004).
4. D.R. Atkins, S. Kleven, I. Vasquez, "Calibration for Non-Destructive Testing," Materials Evaluation (October 2006)
5. D.R. Atkins, M.A. Urzendowski, R.W. Warke, Non-Destructive Testing Handbook, Magnetic Testing, 3rd Edition, Vol 8, "Discontinuities in Ferromagnetic Alloys," (2009).
6. David R. Atkins, Michael A. Urzendowski, and Robert W. Warke, "Visual Tests of Steel," TNT, October 2010, Vol. 9, No. 4.

PRESENTATIONS

1. Testing Technologies and Techniques, ASNT Chicago Section Technical Day, Lansing, Illinois (May 29, 1997).
2. "Practical Aspects of NDE Field Examinations," D.R. Atkins, D.A. Moore, R.J. Shipley, ASM Material Solutions 2003 Conference & Exposition, Pittsburgh, PA (October 14, 2003).

MISCELLANEOUS HONORS

Chairman of the Chicago Section of the American Society for Non-Destructive Testing

SPECIAL INTERESTS

Wood Working, Cooking, Photography, Landscaping and Farming