



KEVIN KENNEDY & ASSOCIATES, INC.

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RESUME OF ROGER F. REEDY

Roger F. Reedy has extensive experience working on the design and construction of pressure vessels, piping, and nuclear power components. His experience includes design, analysis, fabrication, and erection of pressure vessels and piping components for petroleum, chemical, nuclear, fossil fuel, and other industries, including development and implementation of applicable quality systems. His background encompasses design and construction of reactor vessels and containment vessels for nuclear power plants, as well as pressure vessels and storage tanks for petroleum, chemical, and other energy industries. Mr. Reedy is an acknowledged expert in the construction of pressure vessels and nuclear components, including nuclear waste transportation casks and storage canisters, meeting the requirements of the ASME Boiler and Pressure Vessel Code, Section III, Divisions 1, 2 and 3, Section VIII, Divisions 1 and 2, and Sections I, II, V, IX, and XI, and piping to the requirements of ASME B31.1 and B31.3. He is also an expert in implementation of practical quality control programs for designers, fabricators, installers, and owners of industrial equipment and plants.

Prior to establishing himself as a consultant, Mr. Reedy worked at Chicago Bridge and Iron Company. While at CBI, he was responsible for the Code design and analysis of Section VIII pressure vessels, multilayer vessels (up to 16 in. thick), nuclear containment vessels, and nuclear reactor vessels. He has designed hundreds of pressure vessels, including some of the first heavy-wall pressure vessels to meet the provisions of the ASME Section VIII, Division 2, Pressure Vessel Code. Subsequent to leaving CBI, he has been involved in licensing, engineering reviews, welding evaluations, quality program evaluation and implementation, project coordination, and ASME Code training of personnel. He has testified as an expert witness in litigations and before regulatory groups on topics such as design criteria, engineering analysis, fabrication techniques, material and welding applications, material control, and construction practices. He has also provided expert witness testimony for litigation in the areas of quality control/quality assurance, construction practices, design, welding and application of ASME Codes and Standards for many technical litigation proceedings.

Since 1977, Mr. Reedy has been writing a summary of all changes made to the ASME Boiler and Pressure Vessel Code, and B31.1 and B31.3 Piping Codes as they are published in each Addenda. This information is maintained in a computer database, RA-search, which identifies changes to the Boiler and Pressure Vessel Code and the Piping Codes as far back as 1952. RA-search also contains the full text of all ASME Code Interpretations published since 1977, in the searchable data base. Also on the database is a history of the ASME Boiler and Pressure Vessel Code from 1914 (1st edition of the code) to 1952.

Mr. Reedy has served on ASME Boiler and Pressure Vessel Code Committees for more than 40 years in development of Code design, construction, and quality criteria for pressure retaining

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components. He recently served as chairman of the ASME Section III Committee for Nuclear Power Plant Components for 15 years, and as a member of the ASME Boiler and Pressure Vessel Main Committee for 20 years. He was also a member of the ASME Board on Nuclear Codes and Standards for 15 years. He belonged to the N626.3 Committee, that developed the rules concerning duties and responsibilities of engineers designing ASME Code components for nuclear power plants.

Mr. Reedy was one of the founding members of the ASME Pressure Vessel and Piping Division, which is devoted to the cause of advancing knowledge and techniques for Code design and construction of pressure retaining equipment, and was Chairman of the Division. This Division is now one of the largest in ASME.

Mr. Reedy is a registered Structural Engineer(inactive) and Professional Engineer. He is a recipient of the ASME Bernard F. Langer Award, the ASME Centennial Medal, and is a Life Fellow of ASME. Recently, Mr. Reedy was made an Honorary Member of the ASME Boiler and Pressure Vessel Main Committee.

PROFESSIONAL BACKGROUND

- * American Society of Mechanical Engineers, Life Fellow
- * Boiler and Pressure Vessel Main Committee, Honorary Member
- * Executive Committee, former Member
- * Subcommittee on Nuclear Power (Section III), former Chairman, current Member, and Editorial Working Group Chairman
- * Board on Nuclear Codes and Standards, former Member
- * Subgroup on Containment, former Chairman
- * Subgroup on Fabrication and Examination, former Member
- * Pressure Vessel and Piping Division, founding Member and former Chairman, current Senator
- * ANSI/ASME N626.3 Specialized Professional Engineers Committee, former Member

- * American Society of Civil Engineers, Member

- * American Welding Society, Member

- * National Society of Professional Engineers, Member

PROFESSIONAL AWARDS

- * 2004 - Honorary Member of the ASME Boiler and Pressure Vessel Committee

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* 1993 - Bernard F. Langer Nuclear Codes and Standards Award, for outstanding technical contributions to the advancement of design, construction and quality assurance requirements for nuclear equipment and for unwavering dedication to the promotion of ASME nuclear codes and standards.

* 1981 - Life Fellow of ASME

* 1980 - The ASME Centennial Medal, by the Policy Board for Codes and Standards in recognition of decades-long contribution to the development of the Boiler and Pressure Vessel Code.

PROFESSIONAL REGISTRATION

Professional Structural Engineer - Illinois (Inactive)

Professional Civil Engineer - Alabama, California, Illinois, Indiana (Inactive), Michigan, Nevada, Washington, Wisconsin (Inactive)

PROFESSIONAL EXPERIENCE

October 2007 – Present. Consultant, Kevin Kennedy & Associates, Inc.

Providing expertise in civil engineering, pressure vessel, piping, and nuclear power components, quality assurance, boiler and pressure vessel code and piping code, ASME code, expert witness testimony, and related expertise to a wide variety of clients.

1981-present REEDY ENGINEERING, INC. (Formerly Reedy Associates, Inc.)
President

In 1984, Mr. Reedy was the prime mover for the origination of the Nuclear Construction Issues Group (NCIG). NCIG was formed to resolve issues related to welding, quality assurance, design reconciliation and other construction issues of concern at nuclear power plants.

Mr. Reedy developed and maintains RA-search, a database containing all ASME Interpretations and a commentary on all ASME Code revisions as far back as 1950.

Currently consulting with utilities, manufacturers and architect/engineers on fabrication, quality assurance, design, general ASME Code issues, and NRC regulatory issues. Also participates as on expert witness in litigations.

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1976-1981 NUCLEAR TECHNOLOGY, INC.
San Jose, CA
Successively Manager, Special Projects and Chief Consultant

As Manager, Special Projects, he was responsible for managing the quality assurance consulting group and monitoring the General Electric Mark I Containment Modification Project. His experience and ASME Code expertise was a key element in working with the utilities to define and execute a modification program for 16 nuclear power plants that was acceptable to the U.S. Nuclear Regulatory Commission.

As Chief Consultant, he served as ex-officio advisor to all in-house projects and all clients on design, quality, and construction questions concerning application of the ASME Code.

1956-1976 CHICAGO BRIDGE AND IRON CO.
Oak Brook, IL
Successively Designer, Staff Engineer, Project Engineer, Design Manager,
and Senior Engineer

Duties included design of pressure vessels and storage tanks, including cryogenic vessels, vacuum chambers, multilayer vessels, environmental chambers, large autoclaves, and high pressure chambers. His duties required close liaison with shop and field personnel, providing Mr. Reedy with an intimate knowledge of practical shop and field construction techniques including the applicable quality requirements and implementation. In 1966, he led the effort to develop the company's first Quality Assurance Program for a NASA project.

He was responsible for ASME Code design of more than 50 containment vessels and was Design Manager for most of the nuclear vessels fabricated by CBI, including the first field-erected nuclear reactor.

1953 - 1956 U.S. NAVY
Lt. (j.g.) Civil Engineer Corps

EDUCATION

B.S., Civil Engineering, Illinois Institute of Technology

Post-graduate work in structural design and analysis

PAPERS & PUBLICATIONS

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Companion Guide to the ASME Boiler & Pressure Vessel Code - Chapter 4, A Commentary for Understanding and Applying the Principles of the ASME Boiler and Pressure Vessel Code. First Edition - Published 2002, Revised Second Edition - Published 2006, Revised Third Edition - Updated Chapter 4, Updated Chapter 9 - Subsection NE-Class MC Components, Added Appendix to Part 7 - Safety of Personnel Using Quick-Actuating Closures on Pressure Vessels and Associated Litigation Issues - To be published November 2008.

ISO 9000C Guidelines to Increased Costs and Reduced Product Quality
Cost Engineering, June 1994

ASME Nuclear Codes and Standards - Static or Dynamic?
ASME PVP - Vol. 285, Codes and Standards for Quality Engineering, 1994

Changing Priorities for ASME Section III: Engineers and Their Tools
ASME PVP - Vol. 285, Codes and Standards for Quality Engineering, 1994

Practical Quality Assurance - Oxymoronic? A Commentary on Quality Assurance
ASME PVP - Vol. 259, Codes and Standards in a Global Environment, 1993

The Use of Common Sense in the Engineering and Application of Codes and Standards
International Conference on Pressure Vessel Technology, June 1992

Practical Quality Assurance - A Better Approach to Nuclear Construction and Operations
ACRS International Conference on Quality in the Nuclear Power Industry, May 1989

Guidelines for the Content of Records to Support Nuclear Power Plant Operation, Maintenance,
and Modification (NCIG-08), November 1988
(Responsible Manager)

Piping System Reconciliation (NCIG-05), May 1988
(Responsible Manager)

Visual Weld Acceptance Criteria (NCIG-01), September 1987
(Responsible Manager)

The Engineer's Role in the Assurance of Quality
Special Edition of Nuclear Engineering and Design, November 1986

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Design/Construction Interfaces for Piping and Supports When the Designer and the Fabricator, Constructor and/or Installer are Different Organizations

ASME Forum on Industry Review of Construction Issues, October 1985

Progress in Resolving Construction Issues on Nuclear Projects

American Power Conference, April 1985

QC Gone Berserk

Civil Engineering, March 1985

Misconceptions About Welding in the Nuclear Industry

11th Annual National Energy Division Conference/ASQC, 1985

ASME Nuclear Code - Construction Turnover and Local Site Issues

Article in Mechanical Engineering, September 1984

(coauthored with William H. Miller)

Journal of Pressure Vessel Technology, Letter to the Editor, May 1984

AWS & ASME Welding Problems in the Nuclear Industry

American Power Conference, April 1984

Practical Application of Quality Assurance

March 1984

Application of the ASME Section III Code to the Construction of Nuclear Power Plants

French Pressure Vessel Conference, Paris, France, October 1983

Impact of ACI-ASME Code on Design and Construction of Nuclear Containment Structures

American Power Conference, April 1983

EDITOR: Pressure Vessels and Piping: Design and Analysis, Volumes I and II, ASME.